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REGRESI DATA PANEL

Dengan Software EViews

FAKULTAS EKONOMI DAN BISNIS ISLAM UIN SULTHAN THAHA SAIFUDDIN JAMBI

KATA PENGANTAR

Puji syukur kami ucapkan kehadirat Allah Subhana Wa Ta'Ala atas segala rahmat-Nya sehingga bahan ajar ini dapat tersusun sampai dengan selesai. Tidak lupa kami mengucapkan terima kasih terhadap bantuan dari pihak yang telah berkontribusi dengan memberikan sumbangan baik pikiran maupun materinya. Penulis sangat berharap semoga bahan ajar ini dapat menambah pengetahuan dan pengalaman bagi pembaca. Bahkan kami berharap lebih jauh lagi agar bahan ajar ini bisa pembaca membantu pembaca untuk mempraktikkan analisis dengan alat analisis EViews. Bagi kami sebagai penyusun merasa bahwa masih banyak kekurangan dalam penyusunan panduan ini karena keterbatasan pengetahuan dan pengalaman Kami. Untuk itu kami sangat mengharapkan kritik dan saran yang membangun dari pembaca demi kesempurnaan panduan ini.

Jambi, 2 September 2021

Penyusun

PENDAHULUAN

Data panel adalah gabungan antara data runtut waktu (*time series*) dan data silang (*cross section*). Data runtut waktu biasanya meliputi satu objek/individu (misalnya harga saham, kurs mata uang, SBI, atau tingkat inflasi), tetapi meliputi beberapa periode (bisa harian, bulanan, kuartalan, atau tahunan). Data silang terdiri dari atas beberapa atau banyak objek, sering disebut responden (misalnya perusahaan) dengan beberapa jenis data (misalnya; laba, biaya iklan, laba ditahan, dan tingkat investasi) dalam suatu periode waktu tertentu. Ketika kita melakukan suatu observasi perilaku unit ekonomi seperti rumah tangga, perusahaan atau Negara, kita tidak hanya akan melakukan observasi terhadap unit-unit tersebut di dalam waktu yang bersamaan tetapi juga perilaku unit-unit tersebut pada berbagai periode waktu.

A. Metode Analisis Data Panel

Terdapat 3 metode dalam mengestimasi model regresi dengan data panel yaitu *Common Effect, Fixed Effect* dan *Random Effect.*

a. Common Effect Model

Teknik *Common Effect Model* merupakan teknik yang paling sederhana untuk mengestimasi parameter model data panel, yaitu dengan mengkombinasikan data *cross section* dan *time series* sebagai satu kesatuan tanpa melihat adanya perbedaan waktu dan entitas (individu) dengan pendekatan yang sering dipakai adalah metode *Pool least square*. b. Fixed Effect Model

Pendekatan *Fixed Effect Model* mengasumsikan bahwa *intersep* dari setiap individu adalah berbeda sedangkan *slope* antar individu tetap (sama). Teknik ini menggunakan variabel *dummy* untuk menangkap adanya perbedaan *intersep* antar individu.

c. Random Effect Model

Pendekatan *Random Effect Model* yang dipakai mengasumsikan setiap perusahaan mempunyai perbedaan *intersep*, yang mana *intersep* tersebut adalah variabel *random* atau stokastik. Teknik ini juga memperhitungkan bahwa *error* mungkin berkorelasi sepanjang *cross section* dan *time series*.

Contoh Data panel dengan variabel :

- Y : Tingkat Kemiskinan
- X : Pertumbuhan Ekonomi

Kabupaten/Kota di Provinsi SulawesiSelatan Tahun 2011-2015 (Persen)

Tahun	Kabupaten	Y	Х
2011	Kep.Selayar	13.49	8.88
2012	Kep.Selayar	12.87	7.88
2013	Kep.Selayar	14.23	9.18
2014	Kep.Selayar	13.13	9.18
2015	Kep.Selayar	12.94	8.81
2011	Bulukumba	8.12	5.49
2012	Bulukumba	7.82	9.65
2013	Bulukumba	9.04	7.79

Regresi Data Panel dengan Software EViews

2014	Bulukumba	8.37	8.21
2015	Bulukumba	8.15	5.66
2011	Bantaeng	9.21	9.38
2012	Bantaeng	8.89	9.67
2013	Bantaeng	10.45	9.01
2014	Bantaeng	9.68	7.92
2015	Bantaeng	9.53	6.64
2011	Jeneponto	17.16	8.44
2012	Jeneponto	16.58	7.55
2013	Jeneponto	16.52	6.65
2014	Jeneponto	15.31	7.71
2015	Jeneponto	15.18	6.53
2011	Takalar	10.04	7.59
2012	Takalar	9.59	6.58
2013	Takalar	10.42	8.8
2014	Takalar	9.62	9
2015	Takalar	9.48	8.41
2011	Gowa	8.55	7.46
2012	Gowa	8.05	8.15
2013	Gowa	8.73	9.44
2014	Gowa	8	6.94
2015	Gowa	8.27	6.8
2011	Sinjai	9.63	7.6
2012	Sinjai	9.28	7.32
2013	Sinjai	10.32	7.8
2014	Sinjai	9.56	6.98
2015	Sinjai	9.26	7.54
2011	Maros	13.14	11.24
2012	Maros	12.55	11.14
2013	Maros	12.94	6.28
2014	Maros	11.93	5.23
2015	Maros	11.85	8.58
2011	Pangkep	17.36	9.84
2012	Pangkep	16.62	8.26
2013	Pangkep	17.75	9.33
2014	Pangkep	16.38	10.16
2015	Pangkep	16.7	7.98

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2011	Barru	9.59	8.13
2012	Barru	9.28	8.39
2013	Barru	10.32	7.91
2014	Barru	9.74	6.64
2015	Barru	9.42	6.32
2011	Bone	12.67	6.4
2012	Bone	12.25	8.21
2013	Bone	11.92	6.31
2014	Bone	10.88	8.92
2015	Bone	10.12	8.3
2011	Soppeng	9.36	7.17
2012	Soppeng	9.12	6.93
2013	Soppeng	9.43	7.24
2014	Soppeng	8.76	6.76
2015	Soppeng	8.36	5.1
2011	Wajo	8.06	10.11
2012	Wajo	7.83	6.5
2013	Wajo	8.17	6.86
2014	Wajo	7.74	9.15
2015	Wajo	7.66	7.05
2011	Sidrap	6.29	9.63
2012	Sidrap	6	8.93
2013	Sidrap	6.3	6.94
2014	Sidrap	5.82	7.76
2015	Sidrap	5.55	7.92
2011	Pinrang	8.12	7.71
2012	Pinrang	7.82	8.51
2013	Pinrang	8.86	7.28
2014	Pinrang	8.2	8.11
2015	Pinrang	8.34	8.24
2011	Enrekang	15.18	8.08
2012	Enrekang	14.44	7.3
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2015	Enrekang	13.82	6.9
2011	Luwu	13.93	7.89
2012	Luwu	13.33	7

2013	Luwu	15.1	7.74
2014	Luwu	13.95	8.73
2015	Luwu	13.89	7.26
2011	Tana Toraja	13.22	7.78
2012	Tana Toraja	12.72	8.58
2013	Tana Toraja	13.81	7.28
2014	Tana Toraja	12.77	6.56
2015	Tana Toraja	12.46	6.85
2011	Luwu Utara	14.64	8.04
2012	Luwu Utara	14.02	6.81
2013	Luwu Utara	15.52	7.4
2014	Luwu Utara	14.31	8.47
2015	Luwu Utara	13.87	6.67
2011	Luwu Timur	8.29	-4.29
2012	Luwu Timur	7.71	5.62
2013	Luwu Timur	8.38	6.31
2014	Luwu Timur	7.67	8.47
2015	Luwu Timur	7.18	6.85
2011	Toraja Utara	17.06	8.36
2012	Toraja Utara	16.27	9.45
2013	Toraja Utara	16.53	9.75
2014	Toraja Utara	15.1	7.54
2015	Toraja Utara	15.19	7.69
2011	Makassar	5.29	10.36
2012	Makassar	5.02	9.64
2013	Makassar	4.7	8.55
2014	Makassar	4.48	7.39
2015	Makassar	4.38	7.44
2011	Pare Pare	5.91	8.42
2012	Pare Pare	5.58	8.8
2013	Pare Pare	6.38	7.97
2014	Pare Pare	5.88	6.09
2015	Pare Pare	6.08	6.28
2011	Palopo	10.22	7.9
2012	Palopo	9.46	7
2013	Palopo	9.57	8.08
2014	Palopo	8.8	6.66

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	2015			Palc	po		8.58	6.48	
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Sumber : Badan Pusat Statistik

B. PEMILIHAN MODEL TERBAIK

Penentuan model terbaik pada regresi data panel dalam menguji ketiga model : *Common Effect, Fixed Effect* dan *Random Effect* dengan menggunakan ketiga uji sebagai berikut:

1. CHOW TEST

Chow test merupakan uji untuk membandingkan model common effect dengan fixed effect (Widarjono, 2009). Hipotesis yang dibentuk dalam Chow test adalah sebagai berikut :

H0 : Common Effect Model H1 : Fixed Effect Model

H0 ditolak jika P-value lebih kecil dari nilai a. Sebaliknya, H0 diterima jika P-value lebih besar dari nilai a. Nilai a yang digunakan sebesar 5%.

2. HAUSMAN TEST

Pengujian ini membandingkan *fixed effect model* dengan *random effect model* dalam menentukan model yang terbaik untuk digunakan sebagai model regresi data panel (Gujarati, 2012). Hipotesis yang dibentuk dalam Hausman test adalah sebagai berikut :

H0 : Random Effect Model H1 : Fixed Effect Model

H0 ditolak jika P-value lebih kecil dari nilai a. Sebaliknya, H0 diterima jika P-value lebih besar dari nilai a. Nilai a yang digunakan sebesar 5%.

3. LAGRANGE MULTIPILER

uji Lagrange Multiplier (LM) adalah uji untuk mengetahui apakah model *Random Effect Model* lebih baik daripada metode *Common Effect Model* digunakan. Hipotesis yang dibentuk dalam Hausman test adalah sebagai berikut :

H0: Command Effect Model H1: Random Effect Model

H0 ditolak jika P-value lebih kecil dari nilai a. Sebaliknya, H0 diterima jika P-value lebih besar dari nilai a. Nilai a yang digunakan sebesar 5%.



C. ASUMSI KLASIK

Beberapa uji asumsi klasik dapat dilakukan pada regresi data panel.

1. Uji Normalitas

Uji Normalitas digunakan untuk menguji apakah distribusi data normal atau tidak dalam penelitian ini Jarque-Berra dimana hasilnya dapat ditunjukkan dari nilai probabilitas Jarque-Berra. Uji Normalitas menggunakan Jarque-Berra dimana hasilnya dapat ditunjukkan dari nilai probabilitas Jarque-Berra sehingga dapat diketahui bahwa jika nilai probabilitas Jarque-Berra > dari taraf nyata yang digunakan ($\alpha = 5$ %) sehingga dapat disimpulkan bahwa data yang digunakan berdistribusi normal. Sebaliknya jika probabilitas Jarque-Berra < ($\alpha = 5$ %) dapat disimpulkan data yang digunakan tidak distribusi normal.

2. Uji Multikolinieritas

Multikolineritas yaitu terdapat hubungan linear yang lengkap atau pasti, di beberapa atau di antara semua variabel yang menjelaskan dari model regresi. Hubungan linier antar variabel disebut dengan Multikolineritas. Jika koefisien korelasi masing-masing variabel bebas lebih besar dari 0,8, maka terjadi Multikolinearitas.

3. Uji Heteroskadisitas

Heteroskedastitas digunakan untuk menguji keadaan terhadap semua gangguan yang muncul dalam fungsi regresi populasi yang diketahui tidak memiliki varians yang sama. Uji Heteroskedastistisitas dilakukan dengan cara melihat pola residu dari hasil estimasi regresi. Jika residual bergerak tetap (konstan) maka tidak terdapat Heteroskedastisitas.

4. Uji Autokolerasi

Uji Autokorelasi bertujuan untuk menguji antara anggota dari serangkaian observasi yang telah diurutkan berdasarkan urutan waktu maupun ruang. Beberapa tahapan / langkah dalam Regresi Data Panel dapat di gambarkan sebagai berikut :



IMPLEMENTASI DATA PADA EVIEWS

A. INPUT DATA

Tahapan dalam input data pada Regresi Data Panel pada *Software* EViews sebagai berikut:

1. Langkah-Langkah Mengimport Data

Klik file \rightarrow new \rightarrow workfile



Karena data panel klik *balanced panel* (Gabungan *Time Series* dan *Cross Section*)



Kemudian pilih frequency, apabila data tahunan maka pilih annual



Pada menu *start date* diisi sesuaai dengan kasus yang ada. Berdasarkan data di Bab Pendahuluan, isi tahun dimulai tahun 2011 dan *end date* isi tahun terakhir yang diteliti misalnya 2015, dan menu *number of cross section* diisi 24, lalu klik OK.

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Setelah muncul gambar seperti ini, pilih menu *Quick* kemudian *Empty Group*.



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	3-11	9.21	9.38						
	3 - 12	8.89	9.67						
	3 - 13	10.45	9.01						
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B. Analisis Data

Langkah selanjutnya, klik *Proc* pada tabel tadi kemudian pilih *Make Equation*.

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Klik *Make Equation*, pindahkan posisi c sehingga y c x. Kemudian pilih *LS*, karena untuk menguji data panel dan pilih *Panel Option*.

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Command Capture	Equation Estimation X Specification Rend Optoors Options Equation section Dependent variable followed by list of regressors including ARMA Synce Control Control Sample: 2011 2015 CCC Cancel Path = clusters/yudihuldocuments: 08	
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Setelah pindah ke panel *Options* kita pilih opsi untuk penentuan model estimasi memilih apakah menggunakan *Fix Effect Model, Command Effect Model, dan Random Effect Model.*

1. UJI CHOW

15

Langkah awal yang harus dilakukan adalah menguji *Fix Effect Model*. Langkah di EViews adalah klik *Fix Effect Model*



Gunakan Uji Chow dan setelah keluar regresi dari *FIXED EFFECT* klik *View*, pilih *Fixed/Random Effect Testing* dan klik *Redundant Fixed Effect*.

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Regresi Data Panel dengan Software EViews|

Perhatikan probabilitas F, jika nilai probabilitas adalah 0.00 < alfa (0,05) maka Ho = *Command Effect Model* di tolak. Oleh karena itu, H1 : *Fixed Effect Model* diterima.

Analisis lanjutan adalah menggunakan uji Hausman *Fixed Effect Model* dan *Random Effect Model*. Jika hasil analisis sama maka uji LM tidak lagi diperlukan.

2. UJI HAUSMAN

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Langkah yang dilakukan pada Uji Hausman sebagai berikut:

Lakukan kembali ke estimasi awal klik Proc kemudian pilih Estimate seperti regresi awal

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Pada Panel Options pilih Random untuk melakukan pengujian Random Effect, lalu klik OK.

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Maka keluarlah estimasi/regresi seperti dibawah, belum bisa membacanya karena belum mengetahui model apa yang tepat digunakan untuk penelitian ini, setelah mengetahui model yang terpilih, baru bisa digunakan.

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Menggunakan uji hausman. Klik VIEW, pilih FIXED / RANDOM EFFECT TESTING kemudian pilih HAUSMAN TEST

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Dari hasil Uji Hausman pada cross section random. H0 adalah random effect dan H1 fixed effect

Dilihat dari nilai signifikansi pada probabilitas di cross section random 0.39 > alfa (0.05), maka H0 diterima, H0 ditolak maka random effect lebih baik dari fixed effect



Kembali ke regresi awal, klik PROC kemudian pilih ESTIMATE

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Setelah itu pilih kembali panel option, sekarang menguji model COMMAND EFFECT dengan memilih NONE lalu OK

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Maka keluarlah hasil regresi model COMMAND EFFECT, untuk mengetahui regresi model ini kita lakukan uji kembali



Menguji denga uji LM, klik VIEW kemudian pilih FIXED / RANDOM EFFECT TESTING kemudian pilih LAGRANGE MULTIPILER



Maka keluarlah hasil uji LM, dari hasil uji LM maka yang terbaik adalah model COMMAND EFFECT dilihat dari BREUSCH-PAGAN

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COMMAN EFFECT, kembali ke regresi COMMAND EFFECT dengan kembali ke PANEL OPTION pilih NONE lalu OK, maka muncullah hasil regresi COMMAND EFFECT.

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Langkah selanjutnya UJI ASUMSI KLASIK

UJI NORMALITAS

Pilih VIEW, kemudian RESIDUAL DIAGNOSTICS kemudian pilih NORMALITY TEST



HASIL UJI NORMALITAS

Dasar menentukan normalitas lihat dari probability dibawah 0.075 > 0.05 maka data distribusi normal



UJI MULTIKOLINIERITAS

Pilih QUICK kemudian GROUP STATISTICS kemudian pilih CORRELATION



Pada kotak isikan pada variable yang diteliti, dalam contoh ini ada 1 variabel maka ditulis X lalu klik OK



Maka akan muncul gambar seperti ini lalu klik YES



Ini adalah hasil dari UJI MULTIKOLINIERITAS

Uji multi apabila jika nilai dibawah 0.8 maka data bebas dari multikolinieritas, dan sebaliknya jika lebih besar dari 0.8 maka data terjangkit Multikolinieritas. Data ini menunjukkan 1.0000 data ini terjangkit multikolinieritas

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UJI HETEROSKADISITAS

pertama blok pada folder resid

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kemudian pilih generate, pada enter equation isi resabs=abs(resid) klik OK

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Maka akan muncul folder RESABS (Residual Absolut) dan klik didalamnya maka keluar data RESABS



Selanjutnya klik QUICK kemudian ESTIMATE EQUATION

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Kemudian geser pada PANEL OPTION, dan pilih model yang terpilih yaitu COMMAND EFFECT maka pilih NONE dan klik OK

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Ini adalah hasil uji HETEROSKADISITAS

Nilai probabilitas pada X sebesar 0.01 < alfa 0.05 maka terditeksi heteroskadisitas

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Kemudian klik PROC kemudian Make equation, kembali ke regresi awal

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Untuk menguji autokolerasi bisa dilihat pada DURBIN WATSON STAT di dalam regresi

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Autokolerasi dilihat dari

durbin Watson 0.056917,

k=1 (karena variable independen hanya 1)

jumlah observasi 120 sampel, yang mendekati adalah 100 jadi ambil nilai DL dan DU observasi 100

DL= 1.654

DU=1.694

4-DL= 4-1.654 = 2.346

4-DU=4-1.694 =2.306

Maka data ini terditeksi AUTOKOLERASI, karena DW < DU DL

INTERPRESTASI

Interprestasi Hasil Regresi

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KOEFISIEN DETERMINASI/R-SQUARE (GOODNESS OF FIT)

Koefisien ini tentang seberapa baik garis regresi menjelaskan datanya (goodness of fit). Artinya bagaimana garis regresi yang dibentuk nilai residual, maka mempuyai garis regresi yang sempurna. Koefisien determinasi (R2) adalah suatu indikator yang digunakan untuk menggambarkan berapa banyak variasi yang dijelaskan dalam model. Berdasarkan nilai R2 dapat diketahui tingkat signifikansi atau kesesuaian hubungan antara variabel bebas dan variabel tak bebas dalam regresi linier.contoh **R- square pada regresi diatas sebesar 0.012 Jadi variable independen berpengaruh sebesar 1% dan sisanya dipengaruhi oleh variable lain.**

Koefisien ini menunjukkan seberapa besar prosentase variasi variabel independen yang digunakan dalam model mampu menjelaskan variasi variabel dependen. R2 sama dengan 0, maka tidak ada sedikitpun presentase sumbangan pengaruh yang diberikan variabel independen terhadap variabel dependen, atau variasi variabel independen yang digunakan dalam model tidak menjelaskan sedikitpun variasi variabel dependen. Sebaliknya R2 sama dengan 1, maka presentase sumbangan pengaruh yang diberikan variabel independen terhadap variabel dependen adalah sempurna, atau variasi variabel independen yang digunakan dalam model menjelaskan 100% variasi variabel dependen.

Adjested R- Square

Adjusted R-Square hanya mengukur R-Square dengan variabel bebas yang signifikan saja. Oleh karena itu, nilai Adjusted R-Square pasti lebih rendah dari R-Square, kecuali variabel bebasnya cuma ada satu maka nilai Adjusted R-Square = R-Square. Jadi dalam Regresi Linier Berganda, kita harus menggunakan nilai Adjusted R-Square. Karena hanya satu variable maka tidak perlu, atau bisa dilihat adjusted R-square di regresi ini sebesar **0.003 maka perlu ditambahkan variable independent**

Adjusted R-squared memperhitungkan jumlah variabel independen yang digunakan untuk memprediksi variabel target. Dengan demikian, kita dapat menentukan apakah menambahkan variabel baru ke model benar-benar meningkatkan kesesuaian model.

UJI F/KELAKYAKAN MODEL SECARA KESELURUHAN

Uji F digunakan untuk menguji signifikansi pengaruh modal, kualitas manajemen, dan sumber daya insani terhadap tingkat daya saing usaha kecil. Langkah-langkah yang dilakukan adalah:

- 1) Merumuskan Hipotesis (Ha)
- 2) Ha diterima: berarti terdapat pengaruh yang signifikan antara variable independen terhadap variable dependen secara simultan.
- 3) Menentukan tingkat signifikansi yaitu sebesar 0,05 ($\alpha = 0,05$)
- 4) Membandingkan F hitung dengan F tabel.
 - a) Bila Fhitung <Ftabel, variable independen secara bersama-sama tidak berpengaruh terhadap variable dependen.

- b) Bila Fhitung >Ftabel, variable indepnden secra bersama-sama berpengaruh terhadap variable dependen
- 5) Berdasarkan Probabilitas
 - a) Dengan menggunakan nilai probabilitas, Ha akan diterima jika probabilitas kurang dari 0,05.

Pada regresi ini menggunakan uji F probabilitas. Nilai keseleruhan karena variabelnya 1 maka kita lihat prob (F-Statistik) sebesar 0.231 > alfa 0.05 jadi secara keseluruha variable independen tidak berpengaruh terhadap Y

Uji T

Menguji secara partial, Uji Statistik t menunjukkan seberapa jauh pengaruh satu variable independen secara individu atau parsial dalam menerangkan variasi. independen. Langkah-langkah pengujian yang dilakukan adalah sebagai berikut:

- 1) Merumuskan hipotesis (Ha).
- 2) Menentukan tingkat signifikansi (a) sebesar 0,05.
- Membandingkan t hitung dengan t tabel. Jika t hitung lebih besar dari t tabel maka Ha diterima. Berarti bahwa variable independen secara individu berpengaruh terhadap variable dependen.

Uji t bisa dilihat dari t tabel maupun probabilitas

Lihat probabilitas sebesar 0.23 > 0.05 artinya secara parsial variable x tidak berpengaruh secara parsial

Lampiran data T Statistik

α untuk Uji Satu Pihak (<i>one tail test</i>)												
	0,25	0,10	0,05	0,025	0,01	0,005						
dk		α untuk	Uji Dua P	ihak (<i>two</i>	tail test)							
	0,50	0,20	0,10	0,05	0,02	0,01						
1	1,000	3,078	6,314	12,706	31,821	63,657						
2	0,816	1,886	2,920	4,303	6,965	9,925						
3	0,765	1,638	2,353	3,182	4,541	5,841						
4	0,741	1,533	2,132	2,776	3,747	4,604						
5	0,727	1,476	2,015	2,571	3,365	4,032						
6	0,718	1,440	1,943	2,447	3,143	3,707						
7	0,711	1,415	1,895	2,365	2,998	3,499						
8	0,706	1,397	1,860 ·	2,306	2,896	3,355						
9	0,703	1,383	1,833	2,262	2,821	3,250						
10	0,700	1,372	1,812	2,228	2,764	3,169						
11	0,697	1,363	1,796	2,201	2,718	3,106						
12	0,695	1,356	1,782	2,179	2,681	3,055						
13	0,692	1,350	1,771	2,160	2,650	3,012						
14	0,691	1,345	1,761	2,145	2,624	2,977						
15	0,690	1,341	1,753	2,131	2,602	2,947						
16	0,689	1,337	1,746	2,120	2,583	2,921						
17	0,688	1,333	1,740	2,110	2,567	2,898						
18	0,688	1,330	1,734	2,101	2,552	2,878						
19	0,687	1,328	1,729	2,093	2,539	2,861						
20	0,687	1,325	1,725	2,086	2,528	2,845						
21	0,686	1,323	1,721	2,080	2,518	2,831						
22	0,686	1,321	1,717	2,074	2,508	2,819						
23	0,685	1,319	1,714	2,069	2,500	2,807						
24	0,685	1,318	1,711	2,064	2,492	2,797						
25	0,684	1,316	1,708	2,060	2,485	2,787						
26	0,684	1,315	1,706	2,056	2,479	2,779						
27	0,684	1,314	1,703	2,052	2,473	2,771						
28	0,683	1,313	1,701	2,048	2,467	2,763						
29	0,683	1,311	1,699	2,045	2,462	2,756						
30	0,683	1,310	1,697	2,042	2,457	2,750						
40	0,681	1,303	1,684	2,021	2,423	2,704						
60	0,679	1,296	1,671	2,000	2,390	2,660						
120	0,677	1,289	1,658	1,980	2,358	2,617						
~	0,674	1,282	1,645	1,960	2,326	2,576						

LAMPIRAN DU DL untuk uji autokolerasi dengan alfa = 0.05

n∖k	1	L	1	2	3	}	4	L I	:	i	6	i	7	7	1	}	5)	1	0
6	0.610	1.400																		
7	0.700	1.356	8.467	1.896																
	0 762	1 222	0 550	1 777	0 267	2 297														
	0.703	1.302	0.305	1.000	0.307	2.207	0.000	0.000												
9	0.824	1.320	0.629	T-933	0.455	2.128	0.296	2.588												
10	0.879	1.320	0.697	1.641	0.525	2.016	0.376	2.414	0.243	2.822										
11	0.927	1.324	0.758	1.604	0.595	1.928	0.444	2.283	0.315	2.645	0.203	3.004								
12	0.971	1.331	0.812	1.579	0.658	1.864	0.512	2.177	0.380	2.506	0.268	2.832	0.171	3.149						
13	1.010	1.340	0.861	1.562	0.715	1.816	0.574	2.094	0.444	2.390	0.328	2.692	0.230	2.985	0.147	3.266				
14	1.045	1.350	0.905	1.551	0.767	1.779	0.632	2.030	0.505	2.296	0.389	2.572	0.286	2.848	0.200	3.111	0.127	3.360		
15	1.077	1.361	0.946	1.543	0.814	1.750	0.685	1.977	0.562	2.220	8.447	2.471	0.343	2.777	0.251	2.979	0.175	3.716	0.111	3.438
16	1 106	1 271	6 982	1 5 29	8 857	1 779	0 724	1 925	0.615	2 157	8 582	2 299	6 298	2 624	8 364	2 860	8 222	3 098	0 155	3 384
17	1 1 2 2	1 201	1 015	1 536	0.007	1 710	0.730	1 000	0.013	2.1.07	0.502	3 210	0.3.50	3 5 3 7	0.307	2.000	0 171	2076	0.1.00	3 194
17	1.155	1.301	LULJ	1.330	0.057	1.710	0.775	1.300	0.004	2.104	0.304	2.510	0.4.11	2.357	0.530	2.7.57	0.272	2.373	0.150	3.104
18	1.158	1.391	T.040	1.535	0.933	T-930	0.820	1.8/2	0.710	2.060	0.603	2.68	0.502	2.461	0.407	2.668	0.321	2.8/3	0.244	3.073
19	1.180	1.401	1.074	1.536	0.967	1.685	0.859	1.848	0.752	2.023	0.649	2.206	0.549	2.396	0.456	2.589	0.369	2.783	0.290	2.974
20	1.201	1.411	1.100	1.537	0.998	1.676	0.894	1.828	0.792	1.991	0.691	2.162	0.595	2.339	0.502	2.521	0.416	2.704	0.336	2.885
21	1.221	1.420	1.125	1.538	1.026	1.669	0.927	1.812	0.829	1.964	0.731	2.124	0.637	2.290	0.546	2.461	0.461	2.633	0.380	2.806
22	1.239	1.429	1.147	1.541	1.053	1.664	0.958	1.797	0.863	1.940	0.769	2.090	0.677	2.246	0.588	2.407	0.504	2.571	0.424	2.735
23	1.257	1.437	1.168	1.543	1.078	1.660	0.986	1.785	0.895	1.920	0.804	2.061	0.715	2.208	0.628	2.360	0.545	2.514	0.465	2.670
24	1.273	1.446	1.188	1.546	1.101	1.656	1.013	1.775	0.925	1.902	0.837	2.035	0.750	2.174	0.666	2.318	0.584	2.464	0.506	2.613
25	1 299	1.454	1 206	1 550	1 1 72	1 654	1 629	1 767	0.952	1 996	0.969	2 612	6 784	2 144	0 702	2 290	0.671	2 419	0 544	2 560
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20	1.302	1.401	1.224	1.335	1.145	1.032	1.002	1.735	4.004	1.0/5	0.057	1.332	0.010	2117	0.755	2.240	0.007	2.3/3	0.501	2.515
	1.310	L.469	1.240	T.220	T.105	T 021	L084	T \23	1.004	1.901	0.925	1.974	0.845	2.093	U. /6/	2.216	0.091	2.342	0.616	2.470
28	1.328	1.476	1.255	1.560	1.181	1.650	1.104	1.747	1.028	1.850	0.951	1.959	0.874	2.071	0.798	2.188	0.723	2.309	0.649	2.431
29	1.341	1.483	1.270	1.563	1.198	1.650	1.124	1.743	1.050	1.841	0.975	1.944	0.900	2.052	0.826	2.164	0.753	2.278	0.681	2.396
30	1.352	1.489	1.284	1.567	1.214	1.650	1.143	1.739	1.071	1.833	0.998	1.931	0.926	2.034	0.854	2.141	0.782	2.251	0.712	2.363
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n\k 31	1 1.363	1.496	: 1.297	2	: 1.229	3 1.650	1.160	1.735	1.690	5 1.825	1.020	5 1.920	0.950	7 2.018	0.879	8	0.810	9 2.226	1 0.741	0 2.333
n\k 31 32	1 1.363 1.373	1.496 1.502	: 1.297 1.309	2 1.570 1.574	: 1.229 1.244	3 1.650 1.650	1.160 1.177	1.735 1.732	1.690 1.109	5 1.825 1.819	1.620 1.641	5 1.920 1.909	0.950 0.972	7 2.018 2.004	0.879 0.904	8 2.120 2.102	0.810 0.836	9 2.226 2.203	1 0.741 0.769	0 2.333 2.306
n\k 31 32 33	1.363 1.373 1.383	1.496 1.502 1.508	1.297 1.309 1.321	2 1.570 1.574 1.577	: 1.229 1.244 1.258	3 1.650 1.650 1.651	1.160 1.177 1.193	1 1.735 1.732 1.730	1.090 1.109 1.127	5 1.825 1.819 1.813	1.020 1.041 1.061	5 1.920 1.909 1.900	0.950 0.972 0.994	7 2.018 2.004 1.991	0.879 0.904 0.927	8 2.120 2.102 2.085	0.810 0.836 0.861	9 2.226 2.203 2.181	1 0.741 0.769 0.796	0 2.333 2.306 2.281
n\k 31 32 33 34	1.363 1.373 1.383 1.393	1.496 1.502 1.508 1.514	: 1.297 1.309 1.321 1.333	1.570 1.574 1.577 1.580	: 1.229 1.244 1.258 1.271	3 1.650 1.650 1.651 1.652	1.160 1.177 1.193 1.208	1.735 1.732 1.730 1.728	1.090 1.109 1.127 1.144	5 1.825 1.819 1.813 1.808	1.020 1.041 1.061 1.079	5 1.920 1.909 1.900 1.891	0.950 0.972 0.994 1.015	7 2.018 2.004 1.991 1.978	0.879 0.904 0.927 0.950	8 2.120 2.102 2.085 2.069	0.810 0.836 0.861 0.885	9 2.226 2.203 2.181 2.162	0.741 0.769 0.796 0.821	0 2.333 2.306 2.281 2.257
n\k 31 32 33 34	1.363 1.373 1.383 1.393 1.402	1.496 1.502 1.508 1.514 1.519	: 1.297 1.309 1.321 1.333 1.343	1.570 1.574 1.577 1.580 1.584	: 1.229 1.244 1.258 1.271 1.283	1.650 1.650 1.651 1.652 1.653	1.160 1.177 1.193 1.208 1.272	1.735 1.732 1.730 1.728 1.726	1.090 1.109 1.127 1.144 1.160	1.825 1.819 1.813 1.808 1.803	1.020 1.041 1.061 1.079 1.097	1.920 1.909 1.900 1.891 1.884	0.950 0.972 0.994 1.015 1.034	7 2.018 2.004 1.991 1.978 1.967	0.879 0.904 0.927 0.950 0.971	8 2.120 2.102 2.085 2.069 2.054	0.810 0.836 0.861 0.885 0.908	9 2.226 2.203 2.181 2.162 2.144	0.741 0.769 0.796 0.821 0.845	0 2.333 2.306 2.281 2.257 2.236
n\k 31 32 33 34 35	1.363 1.373 1.383 1.393 1.402	1.496 1.502 1.508 1.514 1.519 1.525	: 1.297 1.309 1.321 1.333 1.343 1.343	1.570 1.574 1.574 1.580 1.584	: 1.229 1.244 1.258 1.271 1.283 1.295	1.650 1.650 1.651 1.652 1.653	1.160 1.177 1.193 1.208 1.222 1.225	1.735 1.732 1.730 1.728 1.726	1.090 1.109 1.127 1.144 1.160	1.825 1.819 1.813 1.808 1.803	1.020 1.041 1.061 1.079 1.097	1.920 1.909 1.900 1.891 1.884	0.950 0.972 0.994 1.015 1.034	7 2.018 2.004 1.991 1.978 1.967	0.879 0.904 0.927 0.950 0.971	8 2.120 2.102 2.085 2.069 2.054	0.810 0.836 0.861 0.885 0.908	9 2.226 2.203 2.181 2.162 2.144 2.127	1 0.741 0.769 0.796 0.821 0.845 0.968	0 2.333 2.306 2.281 2.257 2.236 2.216
n\k 31 32 33 34 35 36	1 1.363 1.373 1.383 1.393 1.402 1.411	1.496 1.502 1.508 1.514 1.519 1.525	: 1.297 1.309 1.321 1.333 1.343 1.354	1.570 1.574 1.577 1.580 1.584 1.587	: 1.229 1.244 1.258 1.271 1.283 1.295	1.650 1.650 1.651 1.652 1.653 1.654	1.160 1.177 1.193 1.208 1.222 1.236	1.735 1.732 1.730 1.728 1.726 1.724	1.090 1.109 1.127 1.144 1.160 1.175	1.825 1.819 1.813 1.808 1.808 1.803 1.799	1.020 1.041 1.061 1.079 1.097 1.114	1.920 1.909 1.909 1.891 1.884 1.876	0.950 0.972 0.994 1.015 1.034 1.053	7 2.018 2.004 1.991 1.978 1.967 1.957	0.879 0.904 0.927 0.950 0.971 0.991	8 2.120 2.102 2.085 2.069 2.054 2.041	0.810 0.836 0.861 0.885 0.908 0.908	2.226 2.203 2.181 2.162 2.144 2.127 2.112	1 0.741 0.769 0.796 0.821 0.845 0.868	2.333 2.306 2.281 2.257 2.236 2.216
n\k 31 32 33 34 35 36 37	1 1.363 1.373 1.383 1.393 1.462 1.411 1.419	1.496 1.502 1.508 1.514 1.519 1.525 1.530	1.297 1.309 1.321 1.333 1.343 1.354 1.364	1.570 1.574 1.577 1.580 1.584 1.587 1.590	1.229 1.244 1.258 1.271 1.283 1.295 1.307	1.650 1.650 1.651 1.653 1.653 1.654	1.160 1.177 1.193 1.208 1.222 1.236 1.249	1.735 1.732 1.730 1.726 1.726 1.724 1.723	1.090 1.109 1.127 1.144 1.160 1.175 1.190	1.825 1.819 1.813 1.803 1.803 1.799 1.795	1.020 1.041 1.061 1.079 1.097 1.114 1.131	1.920 1.909 1.900 1.891 1.884 1.876 1.870	0.950 0.972 0.994 1.015 1.034 1.053 1.071	7 2.018 2.004 1.991 1.978 1.967 1.957 1.948	0.879 0.964 0.927 0.950 0.971 0.991 1.011	8 2.120 2.102 2.085 2.069 2.054 2.054 2.041 2.029	0.810 0.836 0.861 0.885 0.968 0.968 0.951	2.226 2.203 2.181 2.162 2.144 2.127 2.112	0.741 0.769 0.796 0.821 0.845 0.845 0.868 0.891	2.333 2.306 2.281 2.257 2.236 2.216 2.197
n\k 31 32 33 34 35 36 37 38	1 1.363 1.373 1.383 1.393 1.402 1.411 1.419 1.427	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535	: 1.297 1.309 1.321 1.333 1.343 1.354 1.364 1.373	1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.594	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318	1.650 1.650 1.651 1.653 1.654 1.655 1.656	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261	1.735 1.732 1.730 1.728 1.726 1.724 1.723 1.722	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204	1.825 1.819 1.813 1.808 1.803 1.799 1.795 1.792	1.020 1.041 1.061 1.079 1.097 1.114 1.131 1.146	1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.870	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088	7 2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939	0.879 0.904 0.927 0.950 0.971 0.991 1.011 1.029	8 2.120 2.102 2.085 2.069 2.054 2.041 2.029 2.017	0.810 0.836 0.861 0.968 0.908 0.930 0.951 0.970	9 2.226 2.203 2.181 2.162 2.144 2.127 2.112 2.098	0.741 0.769 0.796 0.821 0.845 0.868 0.891 0.912	2.333 2.306 2.281 2.257 2.236 2.216 2.197 2.180
n\k 31 32 33 34 35 36 37 38 39	1 1.363 1.373 1.383 1.393 1.402 1.411 1.419 1.427 1.435	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.535	: 1.297 1.309 1.321 1.333 1.343 1.354 1.354 1.364 1.373 1.382	1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.594 1.597	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328	1.650 1.650 1.651 1.653 1.654 1.655 1.656 1.658	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273	1.735 1.732 1.730 1.726 1.724 1.723 1.722 1.722	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218	1.825 1.819 1.813 1.808 1.803 1.799 1.795 1.792 1.792	1.020 1.041 1.061 1.079 1.097 1.114 1.131 1.146 1.161	1.909 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.859	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104	7 2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932	0.879 0.964 0.927 0.950 0.971 0.991 1.011 1.029 1.047	8 2.120 2.162 2.085 2.069 2.054 2.041 2.029 2.017 2.017	0.810 0.836 0.861 0.908 0.908 0.930 0.951 0.970 0.970	9 2.226 2.203 2.181 2.162 2.144 2.127 2.112 2.098 2.098	1 0.741 0.769 0.821 0.845 0.845 0.868 0.891 0.912 0.912	2.333 2.306 2.281 2.257 2.236 2.216 2.197 2.180 2.164
n\k 31 32 33 34 35 36 37 38 39 40	1 1.363 1.373 1.383 1.393 1.402 1.411 1.419 1.427 1.435 1.442	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.544	1.297 1.309 1.321 1.333 1.343 1.354 1.364 1.373 1.382 1.382 1.391	1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.594 1.597 1.600	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338	1.650 1.651 1.651 1.653 1.654 1.655 1.656 1.658 1.659	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285	1.735 1.732 1.730 1.728 1.726 1.724 1.723 1.722 1.722 1.721	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.230	1.825 1.819 1.813 1.808 1.803 1.799 1.795 1.792 1.789 1.786	1.020 1.041 1.061 1.079 1.097 1.114 1.131 1.146 1.161 1.175	1.909 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.859 1.854	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.120	2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932 1.932	0.879 0.964 0.950 0.950 0.971 0.991 1.011 1.029 1.047 1.064	8 2.120 2.085 2.069 2.054 2.041 2.029 2.017 2.007 1.997	0.810 0.836 0.861 0.988 0.930 0.930 0.970 0.970 0.990 1.008	9 2.226 2.203 2.181 2.162 2.144 2.127 2.112 2.098 2.098 2.097	1 0.741 0.769 0.821 0.845 0.845 0.868 0.891 0.912 0.932 0.932	0 2.333 2.306 2.281 2.257 2.236 2.216 2.197 2.180 2.164 2.149
n\k 31 32 33 34 35 36 37 38 39 40 45	1 1.363 1.373 1.383 1.402 1.411 1.419 1.427 1.435 1.442 1.445	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.544 1.566	1.297 1.309 1.321 1.333 1.343 1.354 1.364 1.373 1.382 1.391 1.430	1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.594 1.597 1.600 1.615	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338 1.338	1.650 1.650 1.651 1.653 1.654 1.655 1.656 1.658 1.659 1.666	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285 1.336	1.735 1.732 1.730 1.728 1.726 1.724 1.723 1.722 1.722 1.721 1.721	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.230 1.287	1.825 1.819 1.813 1.803 1.799 1.795 1.792 1.789 1.786 1.776	1.620 1.041 1.061 1.079 1.1097 1.114 1.131 1.146 1.161 1.175 1.238	1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.859 1.854 1.835	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.120 1.189	2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932 1.932 1.924 1.895	0.879 0.904 0.950 0.950 0.971 0.991 1.011 1.029 1.047 1.064 1.139	8 2.120 2.085 2.069 2.054 2.041 2.029 2.017 2.007 1.997 1.958	0.810 0.836 0.861 0.885 0.968 0.930 0.951 0.970 0.990 1.068 1.689	2.226 2.203 2.181 2.162 2.144 2.127 2.112 2.098 2.085 2.072 2.022	1 0.741 0.769 0.821 0.845 0.868 0.891 0.912 0.932 0.932 1.038	0 2.333 2.306 2.281 2.257 2.236 2.216 2.197 2.180 2.180 2.149 2.088
n\k 31 32 33 34 35 36 37 38 39 40 45 50	1 1.363 1.373 1.383 1.393 1.402 1.411 1.419 1.427 1.435 1.442 1.475 1.503	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.544 1.566 1.585	1.297 1.309 1.321 1.333 1.343 1.354 1.364 1.373 1.382 1.391 1.430 1.462	1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.594 1.597 1.600 1.615 1.628	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338 1.338 1.338 1.383 1.421	1.650 1.650 1.651 1.653 1.654 1.655 1.656 1.658 1.659 1.666 1.674	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285 1.336 1.378	1.735 1.732 1.730 1.728 1.726 1.724 1.723 1.722 1.722 1.721 1.720 1.721	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.230 1.287 1.335	1.825 1.819 1.813 1.808 1.803 1.799 1.795 1.792 1.789 1.786 1.776	1.020 1.041 1.061 1.079 1.1097 1.114 1.131 1.146 1.161 1.175 1.238 1.291	1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.859 1.854 1.855 1.854	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.120 1.189 1.246	2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932 1.932 1.924 1.895 1.875	0.879 0.964 0.950 0.950 0.971 0.991 1.011 1.029 1.047 1.064 1.139 1.201	8 2.120 2.085 2.069 2.054 2.041 2.029 2.017 2.007 1.997 1.958 1.930	0.810 0.836 0.861 0.9885 0.930 0.951 0.970 0.990 1.008 1.089 1.156	2.226 2.203 2.181 2.162 2.144 2.127 2.112 2.098 2.085 2.072 2.022 1.986	1 0.741 0.769 0.796 0.821 0.845 0.868 0.891 0.912 0.932 0.932 0.952 1.038 1.110	0 2.333 2.306 2.281 2.257 2.236 2.197 2.180 2.164 2.149 2.088 2.044
n\k 31 32 33 34 35 36 37 38 39 49 49 45 50 55	1 1.363 1.373 1.383 1.393 1.402 1.411 1.419 1.427 1.435 1.442 1.475 1.503 1.528	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.544 1.566 1.585 1.601	: 1.297 1.309 1.321 1.333 1.343 1.354 1.364 1.373 1.382 1.391 1.430 1.462 1.490	1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.594 1.597 1.600 1.615 1.628 1.641	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338 1.338 1.338 1.383 1.421 1.452	1.650 1.650 1.651 1.653 1.654 1.655 1.656 1.658 1.659 1.666 1.674	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285 1.336 1.378 1.414	1.735 1.732 1.730 1.728 1.726 1.724 1.723 1.722 1.722 1.721 1.720 1.721 1.724	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.230 1.287 1.335 1.374	1.825 1.819 1.813 1.808 1.803 1.799 1.795 1.792 1.789 1.786 1.776 1.771 1.768	1.020 1.041 1.061 1.079 1.097 1.114 1.131 1.146 1.161 1.175 1.238 1.291 1.334	1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.859 1.854 1.855 1.822 1.814	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.120 1.189 1.246 1.294	2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932 1.932 1.924 1.895 1.875 1.861	6.879 6.964 6.927 6.950 6.971 1.011 1.011 1.029 1.047 1.064 1.139 1.201 1.253	8 2.120 2.162 2.085 2.069 2.054 2.041 2.029 2.017 2.007 1.997 1.958 1.930 1.909	0.810 0.836 0.861 0.968 0.950 0.951 0.970 0.990 1.008 1.089 1.156 1.212	2.226 2.203 2.181 2.162 2.144 2.127 2.112 2.098 2.085 2.072 2.022 1.986 1.959	1 0.741 0.769 0.796 0.821 0.845 0.868 0.891 0.912 0.932 0.952 1.038 1.110 1.170	0 2.333 2.306 2.281 2.257 2.236 2.197 2.180 2.164 2.149 2.088 2.044 2.010
n\k 31 32 33 34 35 36 37 38 39 40 45 50 50	1 1.363 1.373 1.383 1.402 1.411 1.419 1.427 1.435 1.442 1.445 1.503 1.528 1.549	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.544 1.566 1.585 1.601 1.616	: 1.297 1.309 1.321 1.333 1.343 1.354 1.354 1.364 1.373 1.382 1.391 1.430 1.462 1.490 1.514	1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.594 1.597 1.600 1.615 1.628 1.641 1.652	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338 1.338 1.338 1.338 1.421 1.452 1.480	1.650 1.650 1.651 1.653 1.654 1.655 1.656 1.658 1.659 1.666 1.674 1.681	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285 1.336 1.378 1.414	1.735 1.732 1.730 1.728 1.726 1.724 1.723 1.722 1.722 1.721 1.720 1.721 1.724 1.724	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.230 1.287 1.335 1.374	1.825 1.819 1.813 1.808 1.803 1.799 1.795 1.795 1.792 1.789 1.786 1.776 1.771 1.768	1.020 1.041 1.061 1.079 1.097 1.114 1.131 1.146 1.161 1.175 1.238 1.291 1.334 1.377	1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.859 1.854 1.855 1.822 1.814 1.808	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.120 1.189 1.246 1.294 1.335	2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932 1.932 1.924 1.895 1.875 1.861 1.850	0.879 0.904 0.927 0.950 0.971 0.991 1.011 1.029 1.047 1.064 1.139 1.201 1.253 1.298	8 2.120 2.085 2.069 2.054 2.041 2.029 2.017 2.007 1.997 1.958 1.930 1.999 1.894	0.810 0.836 0.861 0.985 0.930 0.951 0.970 0.990 1.008 1.089 1.156 1.212 1.260	2.226           2.203           2.181           2.162           2.144           2.127           2.112           2.098           2.085           2.072           2.022           1.986           1.959           1.939	1 0.741 0.769 0.796 0.821 0.845 0.868 0.891 0.912 0.932 0.952 1.038 1.110 1.170 1.222	2,333 2,306 2,281 2,257 2,236 2,216 2,197 2,180 2,164 2,149 2,088 2,044 2,010 1,984
n\k 31 32 33 34 35 36 37 38 39 40 45 50 555 60	1 1.363 1.373 1.383 1.402 1.411 1.419 1.427 1.435 1.442 1.445 1.445 1.503 1.528 1.567	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.544 1.566 1.585 1.601 1.616	: 1.297 1.309 1.321 1.333 1.343 1.354 1.354 1.364 1.373 1.382 1.382 1.391 1.430 1.462 1.490 1.536	1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.594 1.597 1.600 1.615 1.628 1.641 1.652	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338 1.338 1.338 1.338 1.3421 1.452 1.462	1.650 1.650 1.651 1.653 1.654 1.655 1.656 1.658 1.659 1.666 1.674 1.681 1.681	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285 1.336 1.378 1.414 1.444	1.735 1.732 1.730 1.728 1.726 1.724 1.724 1.723 1.722 1.721 1.720 1.721 1.724 1.724 1.724	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.230 1.287 1.335 1.374 1.408	1.825 1.819 1.813 1.808 1.803 1.799 1.795 1.795 1.792 1.789 1.786 1.776 1.771 1.768	1.020 1.041 1.061 1.079 1.097 1.114 1.131 1.146 1.161 1.175 1.238 1.291 1.334 1.372 1.404	1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.859 1.854 1.855 1.822 1.814 1.808	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.120 1.189 1.246 1.294 1.335	2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932 1.932 1.924 1.895 1.875 1.861 1.850 1.842	0.879 0.904 0.927 0.950 0.971 0.991 1.011 1.029 1.047 1.064 1.139 1.201 1.253 1.298 1.326	8 2.120 2.085 2.069 2.054 2.041 2.029 2.017 2.007 1.997 1.958 1.930 1.909 1.894 1.882	0.810 0.836 0.861 0.968 0.930 0.951 0.970 0.990 1.068 1.089 1.156 1.212 1.260	2.226           2.203           2.181           2.162           2.144           2.127           2.098           2.098           2.098           2.0972           2.092           1.986           1.959           1.922	1 0.741 0.769 0.796 0.821 0.845 0.868 0.891 0.912 0.932 0.932 0.952 1.038 1.110 1.170 1.222	0 2.333 2.306 2.281 2.257 2.236 2.216 2.197 2.180 2.164 2.149 2.088 2.044 2.010 1.984 1.964
n\k 31 32 33 34 35 36 37 38 39 40 45 50 55 60 60	1 1.363 1.373 1.383 1.393 1.402 1.411 1.419 1.427 1.435 1.442 1.475 1.503 1.528 1.528 1.549 1.569	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.544 1.566 1.585 1.601 1.641 1.629	: 1.297 1.309 1.321 1.333 1.343 1.354 1.354 1.354 1.373 1.382 1.391 1.430 1.440 1.440 1.514 1.514	1.570 1.574 1.577 1.580 1.584 1.590 1.594 1.597 1.600 1.615 1.628 1.641 1.662 1.662	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338 1.338 1.338 1.338 1.452 1.452 1.450	1.650 1.650 1.651 1.652 1.653 1.654 1.655 1.656 1.658 1.659 1.666 1.654 1.681 1.683	1.160 1.177 1.193 1.208 1.223 1.236 1.249 1.261 1.273 1.285 1.336 1.336 1.336 1.338 1.414 1.444 1.444	1.735 1.732 1.730 1.728 1.726 1.724 1.724 1.721 1.721 1.721 1.721 1.721 1.721 1.721 1.721	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.230 1.287 1.335 1.374 1.408 1.468	1.825 1.819 1.813 1.808 1.803 1.795 1.795 1.792 1.789 1.786 1.776 1.776 1.776 1.776	1.020 1.041 1.061 1.077 1.114 1.131 1.146 1.161 1.175 1.238 1.291 1.334 1.334 1.334	1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.859 1.854 1.855 1.822 1.814 1.808 1.805	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.129 1.146 1.294 1.294 1.294 1.294	7 2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932 1.932 1.924 1.895 1.875 1.861 1.850 1.850 1.850	0.879 0.904 0.927 0.950 0.971 0.991 1.011 1.029 1.047 1.064 1.139 1.201 1.253 1.298 1.336	8 2.120 2.085 2.069 2.054 2.054 2.054 2.041 2.017 2.007 1.997 1.958 1.930 1.909 1.894 1.894 1.894	0.810 0.836 0.861 0.938 0.930 0.951 0.970 0.990 1.008 1.089 1.156 1.212 1.260 1.361	2.226           2.203           2.181           2.162           2.144           2.127           2.112           2.098           2.052           2.072           2.032           1.936           1.9393           1.9393	1 0.741 0.769 0.796 0.821 0.845 0.868 0.891 0.912 0.932 0.932 0.952 1.038 1.1100 1.170 1.222	2.333 2.306 2.281 2.257 2.236 2.216 2.197 2.180 2.180 2.149 2.088 2.044 2.010 1.984 1.964
n\k 31 32 33 34 35 36 37 38 39 40 45 50 55 60 65 70	11.363 1.373 1.383 1.393 1.402 1.411 1.419 1.427 1.435 1.549 1.567 1.583	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.540 1.544 1.566 1.629 1.641	: 1.297 1.309 1.321 1.333 1.354 1.354 1.354 1.354 1.354 1.391 1.439 1.4452 1.490 1.514 1.554	2 1.570 1.574 1.574 1.580 1.584 1.584 1.597 1.599 1.609 1.615 1.628 1.641 1.652 1.662 1.662	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338 1.338 1.421 1.452 1.480 1.503 1.525	1.650 1.651 1.652 1.653 1.654 1.655 1.656 1.658 1.659 1.666 1.674 1.681 1.689 1.696	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285 1.336 1.378 1.414 1.444 1.471 1.494	1.735 1.732 1.730 1.728 1.726 1.724 1.721 1.721 1.721 1.721 1.721 1.721 1.721 1.721 1.721 1.721 1.721 1.721	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.230 1.287 1.335 1.374 1.408 1.438	1.825 1.819 1.813 1.808 1.803 1.799 1.795 1.792 1.789 1.776 1.776 1.767 1.767	(1.020) 1.041 1.061 1.079 1.097 1.114 1.131 1.146 1.161 1.175 1.238 1.291 1.334 1.372 1.404	5 1.920 1.909 1.900 1.891 1.884 1.870 1.864 1.859 1.854 1.835 1.822 1.814 1.808 1.805 1.805	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.120 1.189 1.2464 1.235 1.370 1.401	7 2.018 2.004 1.991 1.978 1.967 1.957 1.957 1.957 1.952 1.932 1.932 1.924 1.855 1.861 1.850 1.843 1.838	0.879 0.904 0.927 0.950 0.971 1.011 1.029 1.047 1.201 1.253 1.298 1.336 1.369	8 2,120 2,085 2,069 2,054 2,054 2,054 2,054 2,054 2,054 1,957 1,957 1,958 1,930 1,939 1,8394 1,8394 1,8394	0.810 0.836 0.861 0.968 0.930 0.951 1.068 1.212 1.260 1.301 1.337	9 2,226 2,203 2,181 2,162 2,144 2,127 2,144 2,098 2,098 2,098 2,092 2,092 1,939 1,939 1,939 1,939	1 0.741 0.769 0.821 0.821 0.821 0.932 0.932 0.952 1.038 1.110 1.222 1.266	0 2.333 2.306 2.281 2.257 2.236 2.216 2.197 2.180 2.164 2.149 2.088 2.044 2.010 1.984 1.964 1.964
n\k 31 32 33 34 35 36 37 38 36 37 38 40 45 50 55 60 65 70	11.363 11.373 11.383 11.393 11.402 11.411 11.419 11.427 11.435 11.442 11.475 11.503 11.528 11.549 11.567 11.583 11.583	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.535 1.601 1.616 1.629 1.641 1.642	: 1.297 1.309 1.321 1.333 1.343 1.354 1.354 1.364 1.450 1.462 1.490 1.514 1.554 1.554	2 1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.594 1.597 1.600 1.615 1.628 1.641 1.652 1.662 1.662 1.662	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338 1.338 1.338 1.338 1.421 1.452 1.480 1.503 1.525 1.543	3 1.650 1.651 1.652 1.653 1.654 1.655 1.656 1.658 1.659 1.666 1.674 1.681 1.689 1.696 1.703	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285 1.336 1.378 1.414 1.444 1.471 1.444	1.735 1.732 1.730 1.728 1.728 1.726 1.724 1.721 1.720 1.721 1.720 1.721 1.724 1.725 1.731 1.735 1.735	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.230 1.287 1.335 1.374 1.408 1.438 1.464 1.487	1.825 1.819 1.813 1.808 1.803 1.799 1.795 1.792 1.789 1.776 1.776 1.767 1.768 1.777	1.020 1.041 1.061 1.079 1.097 1.114 1.131 1.146 1.161 1.175 1.238 1.291 1.334 1.372 1.404 1.433 1.458	1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.879 1.854 1.855 1.822 1.814 1.808 1.805 1.802 1.801	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.120 1.189 1.246 1.294 1.335 1.370 1.4401 1.428	7 2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932 1.932 1.932 1.932 1.934 1.835 1.855 1.856 1.856 1.838 1.838	0.879 0.904 0.927 0.950 0.971 1.011 1.029 1.047 1.064 1.139 1.201 1.253 1.298 1.366 1.369	8 2.120 2.069 2.054 2.054 2.054 2.054 2.054 2.057 2.007 1.997 1.958 1.930 1.999 1.894 1.832 1.834	0.810 0.836 0.861 0.968 0.930 0.951 1.068 1.0689 1.156 1.212 1.260 1.301 1.337 1.337	9 2,226 2,203 2,181 2,162 2,144 2,127 2,144 2,098 2,098 2,098 2,092 1,939 1,939 1,939 1,939 1,939	1 0,741 0,769 0,879 0,845 0,845 0,845 0,845 0,912 0,932 0,952 1,038 1,110 1,222 1,266 1,345 1,345	0 2.333 2.336 2.281 2.257 2.236 2.216 2.197 2.180 2.164 2.149 2.088 2.044 2.010 1.984 1.954
n\k 31 32 33 34 36 37 38 39 40 45 50 50 50 65 70 75 80	11.363 11.373 11.383 11.393 11.402 11.411 11.419 11.427 11.435 11.503 11.503 11.528 11.549 11.567 11.583 11.598 11.611	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.544 1.566 1.629 1.641 1.652 1.662	: 1.297 1.309 1.321 1.333 1.343 1.354 1.354 1.354 1.430 1.440 1.514 1.536 1.554 1.554	2 1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.594 1.690 1.615 1.628 1.641 1.652 1.662 1.662 1.662 1.662 1.662	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338 1.338 1.338 1.338 1.421 1.452 1.430 1.503 1.525 1.543 1.556	3 1.650 1.651 1.652 1.653 1.654 1.653 1.656 1.658 1.659 1.666 1.674 1.689 1.669 1.703 1.709 1.715	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285 1.336 1.378 1.414 1.444 1.471 1.444 1.515 1.534	1.735           1.732           1.732           1.730           1.728           1.728           1.721           1.721           1.721           1.721           1.721           1.721           1.721           1.721           1.723           1.724           1.739           1.743	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.230 1.287 1.335 1.374 1.408 1.438 1.448 1.4487 1.507	1,825 1,819 1,813 1,808 1,803 1,799 1,795 1,792 1,795 1,792 1,786 1,770 1,768 1,770 1,768 1,770 1,772	1.020 1.041 1.061 1.079 1.097 1.114 1.131 1.146 1.161 1.175 1.238 1.291 1.334 1.372 1.404 1.433 1.458 1.480	5 1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.859 1.854 1.855 1.822 1.814 1.808 1.805 1.802 1.801 1.801	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.120 1.189 1.246 1.294 1.335 1.370 1.401 1.428 1.453	7 2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932 1.932 1.932 1.932 1.934 1.855 1.861 1.855 1.861 1.858 1.838 1.838	0.879 0.904 0.927 0.950 0.971 1.011 1.029 1.047 1.064 1.139 1.201 1.253 1.298 1.369 1.369 1.399 1.425	8 2.120 2.069 2.054 2.054 2.054 2.054 2.054 2.057 2.007 1.997 1.958 1.930 1.999 1.894 1.854 1.854 1.854	0.810 0.836 0.861 0.908 0.930 0.951 1.008 1.008 1.156 1.212 1.260 1.301 1.337 1.369 1.337	2,226 2,223 2,213 2,162 2,144 2,127 2,112 2,098 2,072 2,072 2,072 2,072 2,072 1,986 1,959 1,939 1,939 1,939 1,939 1,939 1,939	1 0,741 0,769 0,879 0,845 0,845 0,845 0,845 0,845 0,932 0,952 1,038 1,110 0,1222 1,266 1,305 1,339 1,369	2,333           2,336           2,281           2,257           2,236           2,197           2,180           2,197           2,180           2,197           2,180           2,197           2,180           2,197           2,180           2,197           2,180           2,044           2,044           1,954           1,955
n\k 31 32 33 34 35 36 37 38 39 40 45 50 55 50 60 65 55 60 60 55 50 60 60 60 60 85 80 85	1 1.363 1.373 1.383 1.402 1.411 1.419 1.427 1.435 1.4475 1.503 1.508 1.509 1.559 1.559 1.559 1.561	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.540 1.540 1.546 1.585 1.601 1.616 1.629 1.641 1.652 1.662 1.662	: 1.297 1.309 1.321 1.333 1.354 1.354 1.354 1.354 1.373 1.382 1.430 1.544 1.554 1.554 1.5554 1.556 1.600	2 1.570 1.574 1.577 1.580 1.584 1.587 1.590 1.659 1.659 1.659 1.652 1.652 1.652 1.652 1.652 1.652 1.658 1.658 1.658	: 1,229 1,244 1,258 1,271 1,283 1,295 1,307 1,318 1,328 1,338 1,338 1,338 1,3421 1,450 1,557 5,75	1,650 1,650 1,651 1,652 1,653 1,654 1,655 1,656 1,658 1,659 1,664 1,689 1,664 1,689 1,664 1,689 1,689 1,689 1,689 1,703 1,703	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285 1.336 1.444 1.471 1.444 1.515 1.534	1.735           1.732           1.730           1.730           1.730           1.731           1.723           1.724           1.723           1.721           1.721           1.721           1.721           1.721           1.721           1.721           1.721           1.721           1.721           1.721           1.723           1.724           1.725           1.739           1.743	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.235 1.374 1.408 1.408 1.408 1.4487 1.507	1.825 1.819 1.813 1.808 1.808 1.799 1.795 1.795 1.795 1.789 1.783 1.776 1.776 1.768 1.770 1.768 1.770 1.768	1.020 1.041 1.061 1.079 1.097 1.114 1.131 1.146 1.161 1.175 1.238 1.2391 1.334 1.372 1.404 1.433 1.4480 1.500	5 1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.870 1.864 1.835 1.822 1.814 1.835 1.822 1.814 1.838 1.8385 1.8301 1.801	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.129 1.246 1.335 1.370 1.401 1.428 1.453 1.474	7 2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.939 1.932 1.932 1.932 1.932 1.932 1.932 1.932 1.850 1.875 1.861 1.850 1.843 1.858 1.834 1.834 1.834	0.879 0.904 0.927 0.950 0.971 1.011 1.029 1.047 1.1364 1.139 1.201 1.253 1.298 1.336 1.339 1.425 1.448	8 2.120 2.102 2.085 2.069 2.054 2.041 2.037 2.017 1.957 1.957 1.958 1.930 1.939 1.834 1.832 1.834 1.832	0.810 0.836 0.861 0.885 0.908 0.951 0.970 0.990 1.008 1.202 1.260 1.212 1.301 1.337 1.369 1.397	2,226 2,203 2,181 2,162 2,144 2,127 2,112 2,098 2,072 2,022 2,022 2,022 1,986 1,959 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939	1 0.741 0.769 0.821 0.845 0.868 0.891 0.912 0.952 1.038 1.1100 1.1700 1.222 1.266 1.305 1.339	U 2,333 2,306 2,281 2,257 2,236 2,216 2,197 2,180 2,044 2,010 1,584 1,584 1,584 1,584 1,948
n\k 31 32 33 34 35 36 37 38 39 40 45 50 55 50 60 65 70 70 75 80 85 90	1 1.363 1.373 1.383 1.393 1.402 1.411 1.419 1.442 1.442 1.442 1.442 1.445 1.563 1.568 1.569 1.567 1.588 1.568 1.568 1.561 1.624 1.624	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.544 1.566 1.585 1.601 1.619 1.619 1.652 1.662 1.652 1.652	: 1.297 1.309 1.321 1.333 1.343 1.354 1.354 1.354 1.430 1.514 1.536 1.554 1.571 1.586 1.600 1.612	2 1.570 1.574 1.587 1.580 1.584 1.587 1.590 1.615 1.628 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.668 1.668 1.688	: 1.229 1.244 1.258 1.271 1.283 1.295 1.307 1.318 1.328 1.338 1.338 1.328 1.338 1.421 1.452 1.480 1.503 1.525 1.543 1.559	1,650 1,650 1,651 1,652 1,653 1,654 1,655 1,656 1,656 1,656 1,656 1,656 1,656 1,656 1,659 1,656 1,659 1,656 1,659 1,659 1,659 1,701 1,705 1,771 1,776	1.160 1.177 1.193 1.208 1.222 1.236 1.249 1.261 1.273 1.285 1.336 1.378 1.414 1.444 1.4471 1.515 1.534 1.559 1.566	4 1.735 1.732 1.730 1.728 1.726 1.724 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.721 1.720 1.721 1.720 1.721 1.720 1.721 1.721 1.720 1.721 1.720 1.721 1.721 1.721 1.725 1.721 1.725 1.721 1.725 1.721 1.725 1.727 1.721 1.725 1.727 1.725 1.727 1.725 1.727 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.725 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755 1.755	1.090 1.109 1.127 1.144 1.160 1.175 1.190 1.204 1.218 1.230 1.287 1.335 1.374 1.408 1.438 1.448 1.448 1.4487 1.507 1.525 1.542	1.825 1.819 1.813 1.808 1.808 1.799 1.795 1.792 1.780 1.776 1.770 1.767 1.767 1.767 1.768 1.770 1.768 1.770 1.772 1.774 1.778	1.020 1.041 1.061 1.079 1.097 1.114 1.131 1.146 1.161 1.175 1.238 1.291 1.334 1.334 1.337 1.404 1.438 1.458 1.458 1.458	1,920 1,909 1,900 1,891 1,884 1,876 1,870 1,874 1,875 1,874 1,875 1,874 1,875 1,874 1,875 1,874 1,875 1,874 1,875 1,874 1,875 1,876 1,876 1,877 1,878 1,876 1,876 1,877 1,876 1,876 1,877 1,876 1,876 1,877 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 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1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876 1,876	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.120 1.189 1.246 1.294 1.335 1.370 1.401 1.428 1.4453 1.474	7 2.018 2.004 1.991 1.978 1.967 1.957 1.948 1.932 1.932 1.932 1.932 1.932 1.932 1.835 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 1.845 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1,238 1,238 1,238 1,238 1,238	1,825 1,819 1,813 1,808 1,799 1,795 1,795 1,792 1,792 1,792 1,792 1,792 1,792 1,792 1,792 1,776 1,776 1,778 1,777 1,778 1,778	1,020 1,041 1,061 1,079 1,097 1,114 1,131 1,146 1,161 1,175 1,238 1,291 1,334 1,372 1,404 1,372 1,404 1,535	5 1.920 1.909 1.809 1.830 1.830 1.834 1.837 1.834 1.837 1.834 1.835 1.832 1.831 1.830 1.830 1.8301 1.8301 1.8301	0.950 0.972 0.994 1.015 1.034 1.053 1.073 1.104 1.120 1.189 1.246 1.294 1.335 1.370 1.4401 1.429 1.4453 1.4512	7 2,018 2,004 1,991 1,978 1,957 1,948 1,939 1,939 1,939 1,939 1,939 1,932 1,939 1,939 1,835 1,836 1,836 1,838 1,838 1,838 1,839 1,827 1,827	0.879 0.904 0.927 0.950 0.971 1.011 1.029 1.201 1.253 1.298 1.369 1.399 1.425 1.448 1.4489	8 2,120 2,102 2,069 2,054 2,069 2,017 2,007 1,957 1,958 1,930 1,959 1,834 1,837 1,834 1,837 1,837 1,857 1,854	0.810 0.836 0.968 0.930 0.950 1.0970 1.098 1.089 1.156 1.212 1.260 1.301 1.337 1.369 1.337 1.369 1.397	2,226 2,203 2,181 2,162 2,144 2,127 2,112 2,098 2,085 2,085 2,085 2,085 2,085 2,082 1,986 1,959 1,939 1,939 1,939 1,939 1,930 1,900 1,901 1,863 1,884 1,884 1,887	1 0.741 0.769 0.821 0.845 0.831 0.912 0.932 0.932 0.932 0.932 1.038 1.110 1.170 1.222 1.266 1.305 1.339 1.369 1.420	U 2.333 2.306 2.281 2.256 2.216 2.197 2.164 2.180 2.164 2.180 2.010 1.934 1.955 1.964 1.925 1.916 1.909
n\k 31 32 33 44 35 36 37 38 39 40 45 50 55 60 60 65 55 60 60 55 55 60 60 55 55 60 60 65 55 50 55 50 55 50 50 50 50 50 50 50 50	1 1.363 1.373 1.383 1.402 1.411 1.419 1.427 1.442 1.442 1.445 1.548 1.549 1.567 1.583 1.598 1.569 1.568 1.654 1.654	1.496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.535 1.540 1.544 1.544 1.545 1.661 1.652 1.661 1.679 1.662	: 1.297 1.309 1.321 1.333 1.354 1.354 1.354 1.354 1.354 1.536 1.554 1.554 1.554 1.556 1.600	2 1.570 1.574 1.577 1.584 1.584 1.584 1.590 1.584 1.590 1.600 1.615 1.628 1.642 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 1.662 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1.285 1.374 1.438 1.448 1.4487 1.507 1.525 1.542 1.557	1,825 1,819 1,813 1,803 1,799 1,755 1,770 1,775 1,776 1,776 1,776 1,776 1,776 1,776 1,777 1,778 1,777 1,778 1,778	1020 1041 1061 1077 1097 1114 1.131 1.131 1.131 1.238 1.291 1.334 1.372 1.334 1.433 1.438 1.439 1.508 1.558	5 1.920 1.909 1.900 1.891 1.884 1.876 1.870 1.864 1.875 1.859 1.855 1.855 1.852 1.835 1.835 1.830 1.801 1.801 1.801 1.801 1.801	0.950 0.972 0.994 1.015 1.034 1.053 1.071 1.088 1.104 1.189 1.246 1.294 1.325 1.370 1.401 1.428 1.433 1.474 1.494 1.494 1.528	7 2.018 2.004 1.971 1.973 1.967 1.957 1.948 1.939 1.932 1.932 1.932 1.875 1.861 1.875 1.861 1.873 1.838 1.838 1.838 1.839 1.839 1.827 1.827 1.827	0.879 0.904 0.927 0.950 0.971 1.011 1.029 1.047 1.064 1.139 1.201 1.253 1.208 1.369 1.399 1.425 1.448 1.469 1.489 1.469	8 2.120 2.085 2.069 2.054 2.041 2.041 2.041 2.041 2.041 1.937 1.937 1.937 1.939 1.939 1.939 1.834 1.8361 1.8357 1.8554 1.8557	0.810 0.836 0.861 0.885 0.908 0.951 0.970 0.990 1.058 1.250 1.250 1.212 1.260 1.301 1.337 1.369 1.337 1.422 1.4455	2,226 2,203 2,181 2,162 2,144 2,127 2,112 2,098 2,072 2,072 2,072 2,072 2,072 2,072 2,072 2,072 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 1,939 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n\k 31 32 33 34 35 36 37 38 39 40 45 50 55 55 55 50 60 60 65 70 75 80 85 90 95 51 100	1 1.363 1.373 1.383 1.393 1.402 1.411 1.419 1.427 1.435 1.442 1.442 1.455 1.503 1.528 1.559 1.559 1.559 1.559 1.654 1.654 1.654 1.655	1496 1.502 1.508 1.514 1.519 1.525 1.530 1.535 1.540 1.544 1.566 1.541 1.610 1.611 1.612 1.629 1.637 1.634 1.637 1.634	: 1.297 1.309 1.321 1.333 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.334 1.430 1.544 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 1.554 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1.438 1.438 1.4507 1.525 1.542 1.557	1,825 1,819 1,813 1,808 1,799 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,776 1,776 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 1,778 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	EViews 12 (64-bit) Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
	Extracting: EViews 12 (64-bit).msi
	Cancel

# Langkah ketiga

#### Klik next



### Langkah ke empat

Klik: I accept the term of the license agreement



# Langkah ke lima Klik next



Kemudian isi kolom serial number sesuai yang ada di gambar , kemudian klik *anyone who uses this computer*, klik next

EViews 12 (64-bit) - InstallShield W	fizard	$\times$
EViews User Registration		
	Please enter your EViews serial number from your email, and the name of the individual or company you would like to register as the owner of this copy of EViews	
	Serial Number:	
Eviews 12	11E11112 - 2C3B30F5 - 87654321	
	Name: softsara.ir	
	Install this application for:	
IHS Markit	<ul> <li>Anyone who uses this computer (all users)</li> </ul>	
	C Only for me (softsara.ir)	
	<del>\</del>	
InstallShield	< Back Next > Cancel	

# Kemudian pilih files, dan pilih next

EViews 12 (64-bit) - InstallShield	Wizard	×
Select Features Select the features setup will in	istall.	
	Select the features you want to install, and deselect the features you do not want to ins	stall.
	Program Files         275 MB           Help Files         61 MB           Documentation Files         71 MB	all the es. needed
EViews° <b>12</b>	Seasonal Adjustment Documentation       10 MB       to run the program.         Example Files       85 MB         Eviews Illustrated data       84 MB         Excel 2010 Add-in       1 MB	
IHS Markit	Chan	ge
	Space Required on C: 587 MB Space Available on C: 41831 MB	
InstallShield	< Back Next >	Cancel

## Klik EViews 12, accessibility, kemudian klik next

EViews 12 (64-bit) - InstallShield W	izard	×
Select Program Folder Please select a Start Menu folder	for EViews	
	Setup will add program icons to the Start Menu folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue.	
EViews° <b>12</b>	Program Folder:	
	Accessibility Accessories Administrative Tools Adobe Amersoft Ashampoo Auslogics AutoPlay Menu Builder BabySiceO	
IHS Markit	Bolisoft CCleaner doPDF 9	,
InstallShield	< Back Next > Cancel	

Klik no, do not allow EViews to check for updates, klik next



Kemudian, didiamkan hingga muncul gambar seperti di bawah







# Kemudian klik yes



Klik yes



Klik FINISH



# Langkah ke enam Buka kembali folder EViews, kemudian pilih PATCH

File Home Shar	e View App	Manage lication Tools	EViews v12.0 Er	nterprise Edition x64								-	× = = = = = = = = = = = = = = = = = = =
Pin to Quick Copy Paste access Clipboard	Gut Copy path Paste shortcut	Move Copy to• to•	Delete Rename	e New folder	n • ess • Properties	Open • Sele Edit :: Sele History :: Inve	ct all ct none rt selection elect						
← → ~ ↑	his PC > Download:	s > EViews v12.	0 Enterprise Editio	on x64 >						~ č	P .	earch EViews v12.	0 Enterpri
This PC	Name	^	1	Date modified	Туре	Size							
3D Objects	📙 Tutorial Insta 🔞 Help	alasi	0	02/15/2021 10:35 PM 03/21/2014 11:22 AM	File folder Application	29 KB							
Documents	Patch		(	01/03/2021 3:18 PM 02/08/2021 12:41 AM	Application Text Document	16,798 KB 1 KB							
Downloads Music	Setup		1	12/12/2020 8:50 PM	Application	296,158 KB							
E Pictures													
Local Disk (C:)													
79987487f05f35													
Adobe													
Alung													
dari c													
DOKUMEN CPI													
kumpulan mat													
5 items	16.4 MB												
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# Klik patch

📍 EViews 12.0 64-Bit Patch	—		×
Select Destination Location Where should be extracted EViews 12.0 64-Bit crack file(s)?			
This wizard will extract EViews 12.0 64-Bit crack file(s) into folder.	the follow	wing	
To continue, click Patch. If you would like to select a different folder	, click Bro	owse.	
C:\Program Files\EViews 12	В	rowse	]
Make sure that reliated program is colsed.	ļ		
<u>softsara.ir</u> Pa	tch	Exi	it

Didiamkan sehingga muncul gambar dibawah :

📍 EViews 12.0 64-Bit Patch —		
Installing Please wait while EViews 12.0 64-Bit patch, copy crack files on your computer.		
Extracting files C:\Program Files\EViews 12\EViews12_x64.exe		
<u>softsara.ir</u>	E	xit

#### Klik Finish



49 Regresi Data Panel dengan Software EViews





Kemudian muncul tampilan seperti gambar dibawah ini dan pilih **EViews** registration



Klik key obtained by phone, email or browser kemudian isi nomor serial sesuai dibawah

EViews 12 (64-bit) Registration	$\times$							
Instructions To register you must get a Registration Key in one of the following ways:								
<ol> <li>Enter your serial number and let EViews automatically retrieve a Registration Key from the web.</li> </ol>								
2) Using your browser, go to the EViews registration page and provide the User Information given below. Go to www.eviews.com/register								
3) Phone IHS at (949) 856 -3368 and provide the User Info below.								
Instructions         To register you must get a Registration Key in one of the following ways:         1) Enter your serial number and let EViews automatically retrieve a Registration Key from the web.         2) Using your browser, go to the EViews registration page and provide the User Information given below. Go to www.eviews.com/register         3) Phone IHS at (949) 856 -3368 and provide the User Info below.         4) Email the 3 lines of User Information to: register @eviews.com.         User Info:       Serial # 11e11112 - xxxxxxx - xxxxxxx         Name       softsara.ir         Machine ID       147923ff - 5a86b42f - 94de80cc - bc657158         C Let EViews automatically obtain a Registration Key from the web         (a) Key obtained by phone, email, or browser:         231321       21213         21321       21213         21322       112212								
User Info: Serial # 11e11112 - XXXXXXXX - XXXXXXXX								
Name softsara.ir								
Machine ID 147923ff - 5a86b42f - 94de80cc - bc657158								
<ul> <li>Let EViews automatically obtain a Registration Key from the web</li> <li>Key obtained by phone, email, or browser;</li> </ul>								
221221 221212 212212 212122 11222 112212 12221	-							
	1							
Register now Exit without registering								

EViews	×
Registration successfu	I
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# Kemudian berhasil dan muncul tampilan EViews 12

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21	2006M06						011			
22	2006M07		Serial number: 1	1-Dec 8 2020 bu	inci		OK			
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# REGRESI DATA PANEL

**Dengan Software EViews** 

Data gabungan antara data runtut waktu (time series) dan data silang (cross section) yang sering disebut data panel merupakan jenis data yang sering ditemukan di bidang ekonomi. Ketika melakukan suatu observasi perilaku unit ekonomi seperti rumah tangga, perusahaan ataupun negara, kita mengobservasi terhadap unit-unit tersebut dalam beberapa waktu. Regresi Data Panel merupakan salah satu teknik analisis statistika yang menjadi solusi untuk mendapatkan model terbaik dengan tipe data panel. Salah satu Software yang dapat digunakan untuk Regresi Data panel adalah EViews. Buku Bahan Ajar ini memberikan materi tentang Regresi Data Panel dengan software EViews dengan sederhana dan mudah dipelajari.



# Titin Agustin Nengsih, S.Si, M.Si, Ph.D

Lahir pada 16 Agustus 1982 di Kerinci, Provinsi Jambi. Latar belakang pendidikan yang ditempuh adalah Sarjana (S1) dan Magister (S2) di bidang Statistika yang lulus pada tahun 2000 daan 2010 dari Institut Pertanian Bogor (IPB). Setelah itu melanjutkan pendidikan doktoral (S3) di Kota Strasbourg Perancis pada tahun 2020 dengan beasiswa Mora Scholarship Kementerian Agama. Mengawali karier di Universitas Islam Negeri Sulthan Thaha Saifuddin Jambi sebagai dosen PNS pada tahun 2006 pada Fakultas Syariah dan tahun 2016 di Fakultas Ekonomi dan Bisnis Islam. Pada tahun 2015-2016 menjabat sebagai sekretaris Prodi Ekonomi Islam dan aktif di pusat kajian sosial keagamaan, Koordinator bidang ekonomi di BI dan organisasi wanita. Saat ini menjabat sebagai Wakil Dekan bidang Administrasi Umum, Perencanaan dan keuangan FEBI UIN Sulthan Thaha Saifuddin Jambi yang sebelumnya menjadi ketua Pusat Kajian Ketrampilan Akademik Mahasiswa dan Karier Alumni. Salah satu pengalaman dalam bidang penelitian adalah di analisis Regresi Partial Least Square dan Data Hilang.

# Nurfitri Martaliah,S.E.,M.E.K

Lahir di Jambi, 20 April 1991 ini mengawal karir mengajar saat duduk di bangku SMA salah satu pesantren yang ada di Jawa Timur dan melanjutkan kuliah pada tahun 2011 mengambil jurusan Ekonomi Pembangunan dengan predikat Coumlaude pada tahun 2015 dan melanjutkan S2 dengan jurusan yang sama di Universitas Islam Indonesia. Selama menempuh pendidikan magister juga berprofesi sebagai banker di salah satu Bank Swatsa yang ada di Yogyakarta dan lulus tahun pada tahun 2017. Bergabung menjadi dosen PNS di UIN Sultan Thaha Saifuddin Jambi pada tahun 2020 dan masih aktif mengajar di Perguruan Tinggi Swasta yang di Provinsi Jambi

