

# Java Programming Lab Manual

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INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

# **JAVA PROGRAMMING LAB MANUAL**

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**Editors**

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## Chapter 13

### For Loop

Agha Javad Phatan, Zeeshan Bhatti, Asadullah Shah

#### Abstract

The for() loop discussed in this chapter is a very powerful and most commonly used loop in Java. Its syntax and execution flow is quite different from its two counter parts while() and do-while() loops in a way that for() loops has several different parameters within its construct syntax. The students after practicing for loop will have a better understanding between all the looping structures supported by Java programming.

#### 13.1 The For loop

A general necessity in programming is to execute a loop so that a single variable is incremented over a range of values between two limits. This ability is easily provided by the for() loop. To understand the working mechanism of for loop let us consider the syntax of for loop first:

```
for ( statement; condition ; expression)  
    loop_body;
```

again as with all the previous loops and conditional statements discussed in previous chapter, if there is a single statement then there is no need of using the curly brackets { } to define the block. If there are multiple statements that need to be executed within the for() block then use the curly brackets as shown below:

```
for ( statement; condition ; expression)  
{  
    loop_statemtns..;
```