Kore Infotech Learning Centre

#05-06, Tai Seng, LHK 2 Building,
Singapore – 367 996
Contact Us – 6726 3565

Java Porgramming Course Content

Java Porgramming Basic to Intermediate

Topics

Module 1:

- **Getting Started**
- **Describe the key features of Java technology**
- **Write, compile, and run a simple Java technology application**
- **Describe the Java™ virtual machine's (JVM™ machine's) function**
- **Define garbage collection**
- **List the three tasks performed by the Java platform that handle Code Security**

Module 2 :

Identifiers, Keywords, and Types

- **Use comments in a source program**
- **Distinguish between valid and invalid identifiers**
- **Recognize Java technology keywords**
- **List the eight primitive types**
- **Define literal values for numeric and textual types**
- **Define the terms primitive variable and reference variable**
- **Declare variables of class type**
- **Construct an object using new**
- **Describe default initialization**
- **Describe the significance of a reference variable**
- **State the consequence of assigning variables of class type**

Kore Infotech Learning Centre

#05-06, Tai Seng, LHK 2 Building,
Singapore – 367 996
Contact Us – 6726 3565

Module 3 :

Expressions and Flow Control

- **Distinguish between instance and local variables**
- **Describe how to initialize instance variables**
- **Identify and correct a Possible reference before assignment compiler error**
- **Recognize, describe, and use Java software operators**
- **Distinguish between legal and illegal assignments of primitive types**
- **Identify boolean expressions and their requirements in control constructs**
- **Recognize assignment compatibility and required casts in fundamental types**
- **Use if, switch, for, while, and do constructions and the labeled forms of break and continue as flow control structures in a program**

Module 4 :

Arrays and Collections

- **Declare and create arrays of primitive, class, or array types**
- **Explain why elements of an array are initialized**
- **Explain how to initialize the elements of an array**
- **Determine the number of elements in an array**
- **Create a multidimensional array**
- **Write code to copy array values from one array type to another**
- **Declare and create collection objects**
- **Proper use of Collection objects**

Module 5:

– **Exceptions and Assertions**

- **Define exceptions**
- **Use try, catch, and finally statements**
- **Describe exception categories**
- **Identify common exceptions**
- **Develop programs to handle your own exceptions**
- **Use assertions**
- **Distinguish appropriate and inappropriate uses of assertions**
- **Disable assertions at runtime**