SmartBit
Computer's

ISO 9001 : 2008 Certified

14 Years of
ACADEMIC EXCELLENCE

Add: 1st Floor. Above Panjabi Rasoi Hotel, Opp. Maruti Show Room Near Inorbit Mall, Vimannagar Corner, Nagar Raod, Pune-14.

Ph.No. 020-30522895   Mobile: 8888228222   Web Site: www.smartbit.co.in   Email: smartbitpune@gmail.com

Diploma In Core Java Programming

Introducing Java

- The Java Development Environment
- The Java Runtime Environment
- Compiling and Executing Java Programs
- Java Programs
- Introduction to Java Security
- Packages
- Practical Exercises

The Java Language

- Variables
- Data Types
- Declaring Variables
- Primitive Variables
- Reference Variables
- Declaring, Initializing and Releasing Reference Variables
- Arithmetic and Comparison Operators
- Shortcut Operators
- Short-Circuit Operators
- Converting Data Types
- Statements and Semi-Colons
- IF... ELSE
- IF... ELSE... IF
- SWITCH CASE
- WHILE...
- DO... WHILE
- FOR...
- BREAK
- The CONTINUE Statement
- Comments
- Strings
- Practical Exercises

Abstract Classes and Interfaces

- Abstraction
- Abstract Classes
- Abstract Class References
- Abstract Methods
- Abstraction Rules and Guidelines
- Interfaces
- Defining and Implementing an Interface
- Type Conversions and Interfaces
- Summary
- Practical Exercises

Collections

- The java.util Package
- Lists
- Maps
- How to Choose a Collection Class
- Generics
- The Enhanced FOR Loop
- Variable Method Arguments
- Auto Boxing
- Practical Exercises

Exceptions

- Syntax Errors
- Runtime Errors
- Logical Errors
- Exception Handling
- Exception Objects
- Handling Exceptions
- User-Defined Exception Classes
- Exception Handling Guidelines

- Swing Components
- Swing Layouts
- Practical Exercises

Files and Network Input/Output

- Byte Oriented Input and Output Streams
- Decoration
- Character Oriented Streams
- Standard I/O Streams
- Examples Using I/O Streams
- The File Class
- Java and URLs
- Practical Exercises

Object Serialization

- Introduction
- Examples
- Serialization Issues
- The Externalizable Interface
- Version Serialized Files
- Practical Exercises

Specialised Classes

- The StringBuffer and StringBuilder classes
- Enumerations
- Static Imports
- The Java Beans Component Model
- Component Properties
- Designing a JavaBean Class
- Practical Exercises

Threads

- What are Threads?
- Creating Threads
- Implementing the Runnable Interface
- Synchronizing Access to Resources

Objects and Classes

- Objects
- Encapsulation
- Classes
- Class Member Data
- Defining and Using Constructors
- Static Initializers
- Garbage Collection
- Object Lifetime
- Practical Exercises

Inheritance

- Classes and Inheritance
- Methods in the Sub Class
- Polymorphism
- Other Inheritance Issues
- Converting Reference Types
- Wrapper Classes
- Practical Exercises

- Practical Exercises

Creating GUIs with the Abstract Windowing Toolkit

- Introduction
- AWT Example
- AWT Components
- Layout Managers
- Practical Exercises

Events

- The Java Event Model
- Types of Event
- Event Examples
- Practical Exercises

Creating GUIs with Swing

- Swing Packages Overview
- Swing Applets
- Swing Containers

- Communicating Between Threads
- Practical Exercises

Database Connection with JDBC

- Adding JDBC Libraries
- Registering the JDBC Driver
- Connecting to the Database
- Creating and Executing Statements
- Practical Exercises

Jar Files And Java Web Start

- Deploying Applets
- Creating Jar Files
- The Jar Manifest
- Java Web Start
- Practical Exercises

For More Details Please Feel Free To Contact Rahul on 8888228222.