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Java Crash Course

DURATION : 2 MONTHS

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**Off # 01 , Mezzanine Floor, Park View AptNear Usmania
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Java

Foundations for Java.

- Structure of Java platform,
- JDK, JRE, JVM.
- Advantages of Java.
- Compiling source code into bytecode.
- Comments and embedded documentation

Data types:

- Primitive and reference types.
- Variables.
- Object-oriented programming with Java.
- Array declaration, construction and initialization.
- Arrays are first-class objects.
- Multidimensional arrays
- Using wrapper classes and boxing

1

Working with Classes

- Create Classes
- Create Variables
- Write an Expression
- Work with Arrays
- Work with Static Class Members
- Define Methods
- Overload a Method
- Define Constructors
- Create Static Class Members

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Implementing Object-Oriented Programming Concepts

- Import a Class
- Override Methods
- Extend a Class
- Overload and Override Methods
- Abstract Classes
- Polymorphism
- Encapsulation.
- Reusing classes.
- Composition
- Inheritance
- Up casting
- The final keyword.
- Work with Interfaces
- Examine Object-Oriented Design Concepts

Java Exception Handling

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- Why Exceptions
- Standard Exception Handling Options
- Exception Class Hierarchy
- Checked vs. Unchecked Exceptions
- Catching an Exception: try and catch blocks
- Methods Which Throw Exceptions: the throws clause
- System Exceptions vs. Application Exceptions
- Writing Custom Exceptions
- Code Examples & Exercises

Swing

- Graphical user interfaces.
- Capturing an event.
- AWT and Swing classes.

Managing Java Applications

- Working of Garbage Collection
- Deploy a Java Application

Project

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Pre-Requisite: No prior knowledge of Java

Duration: 2 Months

Schedule: 2 Days a Week

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