



# Java Fundamentals for Android Development

## Course Outline:

### **Lesson 1: Java Basics**

- Introduction
- Java programming language
- Java Virtual Machine
- JDK and JRE
- Setting up your machine for Java programming
- Hello World in Java
- Using a text Editor
- Using an IDE
- Java Primitive Data Type
- Naming
- Arrays
- Control Flow
- If/Else and Switch
- Switch statement
- While loop
- For Loop

### **Lesson 2: Object Oriented Programming**

- Introduction
- Object Oriented Programming
- Objects
- Classes
- Inheritance
- Interface
- Access Modifiers
- Constructors
- Method overriding and overloading
- Polymorphism

### **Lesson 3: Java Topics**

- Introduction
- Java Collections
- Interfaces
- Implementations
- Enumerated types
- Serialization
- Deserializing