

# **SIX WEEKS TRAINING IN ANDROID PROGRAMMING**



## **Introduction to Java:**

- History & Need of Java
- Features/Advantages of Java
- JVM Architecture
- Packages in Java

## **Programming in Java:**

- Programming Structure
- Variables/Constants
- Datatypes in Java
- Various operators
- Access Specifiers & Modifiers
- Branching & Looping

## **Methods in Java:**

- Introduction to Methods
- Argument passing mechanism
- Arrays

## **OOPS Principle:**

- Basic principles of OOPS
- Class & Object
- Access modifiers
- Constructors & destructors

## **Inheritance & Polymorphism:**

- Inheritance & polymorphism
- Method Overloading & Overriding
- Abstract class
- Multiple inheritance
- Interfaces

## **Windows Programming:**

- Introduction to GUI Programming



- Introduction to Swings
- Layout Managers
- GUI Programming using Swings

### **Event Handling**

- Event handling mechanism in Java
- Event Listeners & Event Handlers
- Handling mouse & keyboard listeners
- Using MouseListener & MouseMotionListener

### **Applet Programming**

- Applet Introduction
- Applet Life Cycle
- Creating Web pages using Applet
- Handling Events on Applet

### **Overview of Android**

- Overview of the Android Platform
- Applications (Apps) Defined
- Comparison with Mobile Web
- Android Architecture
- Role of Java

### **Android SDK**

- Eclipse IDE Plugin
- Device Emulator
- Profiling Tools
- Hello World Application
- Application fundamentals & user interface

### **Android Application Fundamentals**

- Android application building blocks
- Activating components
- Life Cycle of Application
- Development tools, Manifest File
- Life Cycle of Activity



### **Basic UI Design**

- Form widgets
- Text Fields
- Layouts

### **Main Building Blocks**

- Activity
- Intents
- Services
- Content Providers
- Broadcast Receivers

### **Publishing Applications**

- Testing application
- Signing the application
- Versioning application
- Publishing in android market

### **SQLite Programming**

- Introduction to SQLite
- SQL Basics
- Database Connectivity
- Data binding
- Using content provider
- Implementing content provider

### **XML & JSON**

- XML Parsing SAX
- XML Parsing DOM
- XML Pull Parser
- JSON Parsing

### **Android Web Services**

- What is web service



- Storing data into external MySql database
- Verifying data in android with external MySql database

## **PHP**

- Basic of Php
- Loop ,Array ,block in php
- Database connectivity with mysql in php

## **MY SQL**

### Section 1: Relational Database Basics

#### 1.1 Brief History of MySQL

#### 1.2 Relational Databases and Popular Databases

#### 1.3 SQL Statements