

KOENIG SOLUTIONS • COURSE OUTLINE

Java Fundamentals for Android Development

Learn to write Java programs for Android, from core syntax and control flow to methods, arrays and object-oriented concepts.

4

MODULES

28

TOPICS

COURSE OVERVIEW

This course introduces the history of Java and how Java programs work, followed by setting up the Java JDK, JRE and Android Studio and understanding Android OS structure. It then covers writing, compiling and running Java programs, including variables, data types and methods. Control flow is addressed through if-else and switch statements along with while, do-while and for loops, plus break and continue. The course closes with method structures, passing values by value and by reference, arrays, reading input data and object-oriented programming concepts including Java classes.

WHO THIS COURSE IS FOR

Android Developers

Java Programmers

Software Developers

Mobile App Developers

LEARNING OBJECTIVES

- Explain the history of Java and how Java programs execute
- Install Java JDK, JRE and Android Studio
- Describe Android OS structure
- Write and run basic Java programs
- Apply variables and data types in Java code
- Apply control flow statements such as if-else and switch
- Use loops including while, do-while and for
- Implement methods, arrays and object-oriented class concepts

4 Modules, 28 Topics

01

First Step in Java

TOPICS

- The History of Java
- How Java Program work?
- Install Java JDK and JRE
- Why did Google choose Java over other programming languages?
- Android OS Structure
- Install Android Studio

02

Create and Run Java Projects

TOPICS

- Create an Android Project (Java Project) using Android Studio
- Writing a Java Program
- Java Methods
- Running a Java program
- Java variables and their data type

03

Control Flow Statements

TOPICS

- Introduction
- IF-ELSE statement
- IF-ELSE and ELSE-IF statement
- Switch statement
- While loop
- DO-While loop
- For loop
- The Break statement
- The Continue Statement

04

Methods and Arrays

TOPICS

Introduction · Method Structure · Call Method by value · Call Method by reference · Arrays · Enter Data to Java program · Object Oriented Programming concepts · Java Class

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

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Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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