

# How to learn JAVA in 21 Days ?

A complete Roadmap 🙋

## ✅ Day: 01

### ***Understand the Basics***

- > Introduction to Java & Its Features
  - › Java Virtual Machine (JVM)
  - › Setting Up the JAVA Environment
  - › Hello World Program in JAVA
- Integrated Development Environments  
(IDEs) for JAVA

## ✅ Day: 02 - 03

### ***Datatypes, Variables & Conditional Statements***

- › Data Types | Variables
  - > Conditional Statements
  - > Loops in JAVA
- Modifiers | Operators
- › Programs: Swapping of numbers, Factorial, Fibonacci Series, etc.

## ✅ Day: 04 - 05

### ***Arrays & String Manipulation***

- Arrays | Strings
- > Array vs ArrayList in Java
  - > Scope of Variables
  - > Type Conversion in Java › Switch Statement in Java

## ✓ Day: 06 - 08

### ***Classes, Objects & Methods***

› Classes & Objects

> Methods in Java

> Method Overloading

Method Overriding

Parameter Passing in JAVA

> Constructors in Java

## ✓ Day: 09 - 10

### ***OOPs Concepts***

› Inheritance | Encapsulation

Polymorphism | Runtime Polymorphism

› Abstraction

Super Keyword | This Keyword | Final Keyword

› Association, Composition, and Aggregation

## ✓ Day: 11-14

### ***Interfaces & Packages***

\* Interfaces | Packages

\* Nested Interface | Marker Interface

\* Abstract Classes

\* Difference b/w Abstract Class & Interface

\* Java.Time, Java.Lang, Java.Math

and other packages

## ✓ Day: 15-17

### ***Exception Handling, I/O Streams & Multithreading Concepts***

Exception Handling

- > Types of Exceptions

Multithreading in JAVA

- › Regular Expression in JAVA

File Handling in JAVA

## ✓ Day: 18-21

### ***Collection Framework, AWT & SWING***

- > Collections in Java

- › Generics in Java

- › Java Swing | Simple Calculator

- > Java AWT

- > JAVA Projects