

Java Crash Course

From Beginner to Interview-Ready



Java

PHASE

1

JAVA BASICS

Day 1

Introduction to Java, Features, JDK, JRE, JVM, Installation and IDE Setup

Day 2

JavaProgram Structure, main() Method, Variables, Data Types, Input and Output

Day 3

Operators, Type Casting, Expressions and Operator Precedence

Day 4

Conditional Statements: if, if-else, else-if, Nested if

Day 5

switchStatement, Enhanced Switch Expressions, Decision-Making Programs

Day 6

Loops:for, while, do-while, break, continue

Day 7

NestedLoops, Number Patterns, Star Patterns and Logic Building

PHASE

2

ARRAYS & STRINGS

Day 8

One-Dimensional Arrays, Traversal, Searching and Basic Sorting

Day 9

Two-Dimensional Arrays, Matrix Operations and Array Programs

Day 10

Strings,String Methods, StringBuilder, String Manipulation

PHASE

3

METHODS & CORE OOP

Day 11

Methods, Parameters, Return Types, Method Overloading and Recursion

Day 12

Introduction to OOP, Classes, Objects, Fields and Methods

Day 13

Constructors, Constructor Overloading, this Keyword

Day 14

AccessModifiers, Encapsulation, Getters and Setters

PHASE

4

ADV. OOP & EXCEPTIONS

Day 15

Inheritance, extends, super, Method Overriding

Day 16

Polymorphism, Dynamic Method Dispatch, final Keyword

Day 17

Abstraction, Abstract Classes and Abstract Methods

Day 18

Interfaces, Multiple Interface Implementation and Default Methods

Day 19

staticKeyword, Packages, Import Statements and Wrapper Classes

Day 20

Exception Handling: try, catch, finally, throw, throws