



Java

Course Curriculum

01

Mission

Learn to solve problems in one of the hottest languages in industry, which would help you advance your career in Backend Development, Mobile Development and more!

02

Course Description

Learn back-end development with the Java programming language, one of the most popular programming languages in the world and one a majority of large enterprises rely on for their infrastructure. Learn Algorithms and Data Structures with Java with inbuilt Collections to optimise and effectively code.

03

Prerequisites

- General Requirements

You are enthusiastic and motivated to learn. Participation in this course requires consistently meeting project deadlines and active participation.

- Program-Specific Requirements

You have access to a computer with an internet connection, on which you'll install a professional code/text editor (VSCode).

You can independently solve and describe your solution to a math or programming problem.

04

Jobs Which You Can Apply

Java Developer, Software Developer

1. Problem-Solving Skills on Hackerrank
2. Java Syntax
3. Functions
4. Collections (ArrayList, Stack, Queue, HashSet, HashMap)
5. Object-Oriented Programming.

Estimated Time	Modules	Target	Questions to be done
Day 1 & 2	Module 1 Java Basics	Printing and Input, Syntax/Data Types, Arithmetic and Conditional statements	Printing and Input, Arithmetics, Min/Max of 2/3 numbers,
Day 3 & 4	Module 2 Loops/Iteration	while and for-loop switch statements	Patterns (Printing *, 1, or char in triangles)
Day 5 & 6		Questions: Pattern printing, series like AP	Sum of series like AP
Day 7 & 8	Module 3 Time complexity and Array Introduction	Time complexity & Big-O Notation Arrays Functions and java.Math module	Primes, Min/Max, Sum series Pascal's Triangle
Day 9 & 10	Module 4 Arrays and 2-D arrays	Arrays, 2-D arrays	Sort, Search, Largest from row/col,
Day 11 & 12			Tic-tac-toe Win, Sudoku validation, Rotate Matrix, Sum rows/cols
Day 13 & 14	Module 5 OOPs	Class, Access modifier, Interface, static methods, Generics - Introduction	Abstraction, Overloading, Overriding, Inheritance I and II
Day 15 & 16	Module 6 Collections	ArrayList, Collections.sort, Comparator Stack and Queue, Set - HashSet Map - HashMap	Parenthesis checker,
Day 17 & 18			Remove duplicates, 2Sum, Frequency,
Day 19 & 20			Group Anagrams, 2Sum - return index



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