

JAVA:

In this Java course, you will learn basic concepts of Java, create conditional statements, functions and Object-Oriented Programming such as arrays, methods, and inheritance, polymorphism, classes. And also, you'll learn to use IntelliJ, a Java IDE (Integrated Development Environment) that professional developers use, to build, compile, and debug your code. As a part of the project, we will develop an awesome project using the Java oops concepts.

Syllabus:

Module 1: Basic Concepts

1. Introduction to Java
2. A Hello World Program
3. Java Comments
4. Variables
5. Primitive Operators
6. Increment & Decrement
7. Strings
8. Getting User Input

Module 2: Conditionals and Loops

9. Conditional Statements
10. Nested if Statements
11. else if Statement
12. Logical Statements
13. The switch Statement
14. While Loops
15. For Loops
16. do while Loops

Module 3: Arrays

17. Arrays
18. Summing Elements in Arrays
19. Enhanced for Loop
20. Multidimensional Arrays

Module 4: Classes and Objects

21. Object-Oriented Programming
22. Methods
23. Method Return Types
24. Creating Classes & Objects
25. Class Attributes
26. Access Modifiers
27. Getters and Setters
28. Constructors
29. Value & Reference Types
30. The Math Class
31. Static
32. Final
33. Packages

Module 5: More on Classes

- 34. Encapsulation
- 35. Inheritance
- 36. Polymorphism
- 37. Overriding & Overloading
- 38. Abstract Classes
- 39. Interfaces
- 40. Casting

- 41. Downcasting
- 42. Anonymous Classes
- 43. Inner Classes
- 44. The equals () method
- 45. Enums
- 46. Using the Java API

Module 6: Exceptions, Lists, Threads & Files

- 47. Exception Handling
- 48. Multiple Exceptions
- 49. Threads
- 50. Runtime vs. Checked Exceptions
- 51. ArrayList
- 52. Linked Lists
- 53. HashMap

- 54. Sets
- 55. Sorting Lists
- 56. Iterators
- 57. Working with Files
- 58. Reading a File
- 59. Creating & Writing Files

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