

JAVA

Java Advanced Placement Program is a unique training program for Engineering Graduates and working Professionals aimed at nurturing the skills of **Coding and object-oriented Programming, Algorithm Design and implementation, Data Structures,** and creating **Multi-Threaded Programs.**

Learning Path

1. JAVA: Level 0 (BASICS)

- a) Introduction to Programming
- b) Introduction to Java
- c) Installation & Environment Setup
- d) HelloWorld and other basic programs

2. JAVA: Level 1

- a) Identifiers
- b) Variables
- c) Data Type
- d) Type Casting

3. JAVA: Level 2

- a) Operators
- b) Conditional Statements
- c) Loops
- d) Transfer Statements
- e) Output Statements

4. JAVA: Level 3

- a) Introduction to Object Oriented Programming
- b) Class & Objects
- c) Methods & Method Overloading
- d) Constructor & Constructor Overloading

5. JAVA: Level 4

- a) Inheritance
- b) Polymorphism



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- c) Comparison of Method Overloading and method Overriding
- d) Encapsulation
- e) Abstraction

6. JAVA: Level 5

- a) Generalization and Specialization
- b) Access Specifiers
- c) Java Library
- d) Object Class
- e) String Class
- f) Wrapper Class
- g) Java Bean Class
- h) System Class and its members
- i) Scanner class

7. JAVA: Level 6

- a) Singleton Design pattern
- b) Collection Frameworks
- c) Exception Handling
- d) Packages
- e) Multi-threading



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