

JAVA

1. Introduction to Java

- Identify Java Architecture and Features
- Differentiate between C++ and Java in terms of syntax and semantics
- Compile and execute Java programs
- Define Variables, Constants, Keywords, Data Types, Operators, and Expressions
- Implement Control statements for decision making and iteration

2. Java Methods

- Define methods and understand scope
- Pass and return arguments in methods

3. Arrays

- Create and utilize arrays (One Dimension and Multi-dimensional)
- Reference arrays dynamically

4. Strings

- Utilize the Java String class
- Create and manipulate String objects
- Understand String Immutability and Equality

5. Simple I/O using IO package and the Scanner class

- Implement Byte and Character streams
- Read from and write to console and files

6. Inheritance

- Implement Single Level and Multilevel Inheritance
- Apply Method Overriding and Dynamic Method Dispatch
- Understand Abstract Classes and Methods, Interfaces and Packages
- Define Package and Class Visibility

7. Exception Handling

- Explain concepts and types of exceptions
- Build custom exception classes

8. Multithreading

- Utilize the Thread class and Runnable interface
- Create single and multiple threads
- Prioritize threads for execution.

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