



Internship On JAVA Programming (4 Weeks)

(Online Session)

COURSE CONTENT

CORE JAVA

Introduction to Java

- Brief history and importance of Java
- How Java fits into the world of programming languages
- Benefits and features of Java

Setting Up Development Environment

- Installing JDK (Java Development Kit)
- Configuring the PATH environment variable
- IDE's like Eclipse
- Eclipse keyboard shortcuts

Foundations of Java

- Data types
- Variables
- Creating classes
- Methods
- Creating objects
- Object class
- User-defined variables
- Operators
- Control statements
- Loop structures



Core Concept

- Package and Import
- JDK and JRE
- JVM
- JIT
- Class communication
- Instance Block
- Static Block

Object-Oriented Programming (OOP)

- Classes and objects
- Encapsulation
- Inheritance
- Polymorphism
- Abstraction

Useful Keywords

- Static
- Final
- Super and this
- Abstract

Exception Handling

- Why exception handling
- Understanding exceptions & errors
- Handling exception
- Exception hierarchy
- Types of exception
- Try
- Catch
- Throw
- Throws

- Finally
- User-defined exception:

Multithreading

- Thread Introduction
- Creating & managing threads
- Extending thread class
- Implementing runnable interface
- Thread life cycle
- Daemon thread & non-daemon thread
- Useful methods

