





Duration: 1 Month



History Features

Java Basics & Introduction to Eclipse

Post Install Configuration Writing a simple program

compiling and executing Data types

Variables and Arrays Using Eclipse

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Operators & Expressions

- Arithmetic Operators
- Boolean Operators
- Logical Operators
- Binary Operators



Control Statements

- Branching Statements
- Iterative Statements
- ✓ Break & Continue with enhancements
- ✓ While
- ✓ For
- ✓ Do..While
- ✓ Goto Statement
- Break and Continue Statement



Java Object Oriented Programming

- Basics of OOPs
- Fundamentals of class & object
- new keyword
- Reference variables
- Member methods of a class
- Constructors
- Finalize method
- Overloading member methods
- Overloading constructors
- Passing and returning objects with methods
- Access Control
- Static Methods
- Static Variables
- Static Block
- Using final keyword
- Unit Testing using Junit-5

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Inheritance

- Basics of Inheritance
- Members accessibility in inheritance
- Using super keyword
- Multilevel Inheritance
- The sequence of execution of constructors in inheritance
- Method Overriding
- Dynamic Method Dispatch
- Abstract classes
- Preventing overriding
- Preventing inheritance



Exception Handling

- Fundamentals of Exceptions
- Types of exceptions
- Using try and catch keywords
- Multiple catches
- Nesting of try blocks
- Using throw keyword
- Using throws keyword
- Finally block
- Some predefined exceptions and their usage
- User defined exceptions



Interfaces

- Purpose of Interface
- Defining an interface
- Implementing interfaces
- Interface reference variables
- Interface with variables
- Extending interfaces



Multi Threaded programming

- Basics of threads
- Java threaded model
- Defining threads using Runnable interface
- Defining threads using Thread superclass
- Multiple threads
- Thread Priority values
- Thread Synchronization using synchronized methods
- Thread Synchronization using synchronized blocks



Predefined Libraries

- Using String class
- Using java.lang package
- Working with Data & Time
- Utility framework
- Collection framework
- ✓ I/O framework

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