

Core Java

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Pre-requisite: No pre-requisite for this batch. Who is willing to learn Core Java from scratch (0) are welcome.

- 1. Basics**
 - a. What is Java? History of Java, Features of Java, C++ vs Java, Hello Java
 - b. Program Internal, How to set path?
 - c. JDK, JRE and JVM Internal Details of JVM
 - d. Java Variables, Java Data Types, Java Array
 - e. Unicode System
 - f. Operators, Keywords
- 2. Control Statements**
 - a. Java If-else, Java Switch, Java For Loop, Java While Loop, Java Do While Loop, Java Break, Java Continue
- 3. Java Object Class**
 - a. Java OOPs Concepts, Naming Convention, Object and Class, Constructor, static keyword, this keyword
- 4. Java Inheritance**
 - a. Inheritance(IS-A), Types of inheritance in java
 - b. Aggregation(HAS-A)
- 5. Java Polymorphism**
 - a. Method Overloading, Method Overriding
 - b. Covariant Return Type, super keyword, Instance Initializer block, final keyword
 - c. Runtime Polymorphism, Dynamic Binding, instanceof operator
- 6. Java Abstraction**
 - a. Abstract class, Interface, Abstract vs Interface
- 7. Java Encapsulation**
 - a. Package, Access Modifiers, Encapsulation
- 8. Exception Handling**
- 9. Java OOPs Misc**
 - a. Object class, Object Cloning, Math class, Wrapper Class, Java Recursion, Call By Value, strictfp keyword, javadoc tool, Command Line Arg, Object vs Class, Overloading vs Overriding, String class
- 10. Java Collection**
- 11. Java FILE IO**
- 12. Java JDBC**
- 13. Java Multithreading**
- 14. Java Networking**
- 15. Java Reflection**
- 16. Java RMI Remote method execution**
- 17. Java 8 Lambda Expression**

Selenium Automation

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Pre-requisite: Core Java or Python / Ruby, C# must. From day 1 to last it will be only Selenium Automation. Whatever we will learn it will be whole selenium from a single browser to multi browser, multi OS (Windows, Linux and MacOSX as well), devices such as Android and iPhone automation, Parallel Test execution and many things.

- 1. Setting up Environment with IDE Eclipse/IntelliJ Idea**
 - a. External Jar projects
 - b. Maven Project- Introduction to Maven
- 2. Hello Selenium: Browser Launch**
 - a. Chrome
 - b. Firefox
 - c. IE
 - d. Safari MacOSX
 - e. Chrome Android
 - f. Safari iPhone
- 3. WebDriver API Commands**
- 4. XPath**
- 5. Alerts & Windows**
 - a. Wait Commands
 - i. ImplicitlyWait
 - ii. FluentWait
 - iii. ExpectedConditions
 - iv. Advance Webdriver Waits
 - b. Handle Ajax Wait using JavaScriptExecutor in Selenium?
 - c. Switch Commands
 - d. Handling of Alerts, JavaScript Alerts and PopUp Boxes
 - e. Handling Iframes
 - f. Interact with Elements inside an Iframe
- 6. Appium: Android and iPhone devices automation**
- 7. AutoIT**
- 8. Robot**
- 9. Framework Development**
 - a. Hybrid
 - b. Keyword
 - c. Page object model
 - d. Custom POM
 - e. Junit
 - f. TestNG
- 10. Jenkin**
 - a. Execution from Jenkin
- 11. GitHub**

12. WebDriver Mind Map :-

