



## Week 1 – Selenium IDE

### ➤ Day -1

- Need of Test Automation
- Why Open Source Test Automation
- Introduction to Various Tools of Test Automation
- Introduction of Selenium
- Selenium Components
- First Record And Replay of Scenario in Selenium IDE

### ➤ Day – 2

- Introduction of Web Technologies – HTML ,XML, Java Script, CSS and DOM
- Locators in Selenium
- Introduction of Selenese Commands Types
- Selenium Action Commands
- Verification and Assertion Commands

### ➤ Day – 3

- Store and Store Eval – Accessor Commands
- Selenese HTML
- Creation of Test Suite
- Debugging IDE Script
- Assignment on Selenium IDE

## Java

### ➤ Day – 4

- Introduction to Java
- Setting Development Environment – Eclipse
- Walk Through of Java Concepts
- Hello World!
- Introduction to Java Data Types
- Talking Input From End User

### ➤ Day – 5

- Numerical Data Type and Numerical Operators
- Boolean Data Type and Operators
- Conditional Statement [IF], and Lop [While ]

### ➤ Day – 6

- Conditional Statement [Switch]
- Loop [FOR]
- String Data Type And Functions
- Command Line Parameters

### ➤ Day – 7

- Arrays
- Hash Tables/Map object
- Regular Expression



➤ **Day – 8**

- File Handling
- Java OOPs Concept
- Concept of Classes and Objects in Java

➤ **Day – 9**

- Concept of packages in Java
- Exception Handling
- Debugging in Java
- General Java Programming tit – bits

➤ **Day – 10**

- Overview of Web Driver
- Introduction to Browser Specific Drivers
- Setup Web Driver Package on System for Eclipse
- Setup Firebug for Firefox
- Exporting Pre – recorded test Scenario in IDE to Web Driver , and Executing it .

➤ **Day – 11**

- Revisiting Locators of Selenium
- Automating Different HTML Elements Text Fields , Buttons , Links , Check Box Drop – Down etc

- Verifications and Assertions
- Desired Capabilities and IE

➤ **Day – 12**

- Handling Web Table
- Switch to Command – Handling Frames , Popup Windows .
- Concept of Synchronization
- Brief about Ajax and How to Handle Ajax with Web Driver

➤ **Day – 13**

- Concept of Parameterization
- JDBC – Introduction
- Components of JBDC
- Set JDBC with MYSQL Connector for Java Project
- JDBC with MYSQL

➤ **Day – 14**

- Introduction to Page Object Model
- Usage of Page Object Model for Demo Site

➤ **Day – 15**

- Introduction of Selenium Grid
- Usage of Selenium Grid , Executing Same Test on Different Browsers

➤ **Day – 16**

- What is Test Automation Frameworks



- Different Type of Frameworks , Overview
- Available Test Automation Frameworks on Selenium
- J Unit
- Testing
- **Day – 17**
  - Creating Test Using Testing
  - Testing Annotations
  - Explanation of Testing XML
  - Execution of Testing Tests
  - Explanation of Testing Folder and Various Result Files
- **Day – 18**
  - Advance Test Ng
  - Parameterize Testing Test – Data Provider
  - Capturing Screen Shots
  - Custom Reporter
- **Day – 19**
  - Introduction to Various Java APIs – log4j Apache POI , XML Beans .
  - Quick Snapshot – Create Logs
  - Quick Snapshot – Read and Write to Excel Files
- Quick Snapshot on – Java Reflection
- **Day – 20**
  - Demo of Hybrid Framework for Selenium
  - Demo of Keyword Driven Framework for Selenium
- **Day – 21**
  - Refresh the Concept on Selenium
  - Best Practices in Test Automation
  - Real Time Challenges Faced in Automation
  - Sample Interview Questions and the Answers
  - Resume Guidance