



- Selenium is a popular open source web application test automation tool. Since it is open source it is mostly used in IT industries for automation testing purpose. This training will cover features and components of Selenium to enable participants to be able write good automation scripts.
- Participants are requested to bring their laptops.
- For more details visit [www.scriptinglogic.org](http://www.scriptinglogic.org)

## Selenium Course content

| <b><u>Core Java</u></b>                        |   |
|--|---|
| <b>A. Basics</b>                               | • Constructors & ways to initialize class |
| • Introduction                                 |   |
| • Java programming                             | <b>B. Control Flows</b>                   |
| • Keywords                                     | • If else statement                       |
| • Data types                                   | • Switch statement                        |
| • Local and global variables                   | • For loop                                |
| • Classes & objects                            | • For Each loop                           |
| • Access specifiers                            | • Do while loop                           |
| • Creating & Importing packages                |   |
| <b>C. Object Oriented Programming concepts</b> | <b>D. Exception Handling</b>              |
| • Encapsulation                                | <b>E. Collections</b>                     |
| • Abstraction                                  |   |
| • Inheritance                                  |   |
| • Types of Inheritance                         |   |
| • Polymorphism                                 |   |
| • Method overloading                           |   |
| • Method overriding                            |   |

## Selenium:

### Introduction :

- Why Selenium
- Selenium Vs other tools (HP etc)
- Selenium Components
  - Selenium RC Vs Webdriver
    - Selenium Core
    - Selenium IDE
    - Remote Control (Selenium1)
    - Webdriver (Selenium2)
    - Grid
- Locators & types

### Selenium IDE:

- Introduction
- IDE features
- Installing & configuring IDE
- Inspecting elements in IDE
- Recording and playback the scripts
- Building testcases
- Running testcases
- Debugging

### Intellij Idea

- Configuring Project
- Write & compile Java programs
- Debug java code
- Run Java code
- Write and Execute sample java programs

### Test NG:

- Introduction
- Configuring TestNG
- Annotations
- Composing tests
- Generating reports
- Trouble shooting

## Selenium Webdriver:

- Introduction
- Configuring Webdriver with Eclipse
- Create project
- Create and run tests
- Executing tests on multiple browsers. Debugging tests
  - IE
  - Firefox
  - Chrome
- Using locators (Id,Class,Name,xpath,css etc)
- Choosing locating Strategies
- Handling Security popups / Alerts / Dialog boxes
- Working with various Web Elements
  - Input boxes
  - List
  - Links
  - Radio buttons
  - Check boxes
- Error handling
- UI Mapping
- Data Handling
  - Parameterization
  - Reading and writing to excel