# SELENIUM

# Basics of Selenium

1. Overview of selenium
2. Installations and Configurations
3. [HTML concepts required for Selenium](http://www.seleniumeasy.com/selenium-tutorials/basic-html-concepts-required-selenium)
4. Basic Locator Concept
5. Installing Firebug & Firepath Addons
6. Launch Chrome browser
7. Launch Chrome IE browser
8. Launch Firefox browser
9. Webdriver Methods
10. Synchronization Concept
11. Handling Frames
12. Taking Screenshot Using Webdriver
13. Handling Dropdown
14. [Handling Cookies in Webdriver](http://www.seleniumeasy.com/selenium-tutorials/how-to-handle-cookies-in-selenium-webdriver)
15. Drag and Drop element
16. Webdriver Wait
17. Handling Alert pop up
18. Retrieve Attribute Value
19. Click Button and Enter Value in TextBox
20. Basic Interview questions

Advance Concept of Selenium

1. Dynamic Xpath
2. [Scrolling web page](http://www.seleniumeasy.com/selenium-tutorials/scrolling-web-page-with-selenium-webdriver-using-java)
3. Handling Ajax Autosuggests
4. Concept of firefox profile and implementation
5. Wait for browser to load completely – JavaScript concept
6. Counting Number of link on a page
7. Keyword-Driven Framework
8. Page Object Model Framework
9. Selenium Grid Concepts & Architecture
10. Setup Selenium Grid

# TestNG

1. Overview of TestNG
2. Install TestNG in Eclipse

Assertions in TestNG

Retry executing only Failed Tests using TestNG

TestNG Tests Run Count after Retry.

Taking ScreenShot ONLY for Failed Tests

TestNG Test Case

TestNG Test Suite

Parallel Execution of Classes in TestNG

Exception Test in TestNG

Include and Exclude Test Methods in TestNG

DataProvider in TestNG

TestNG XML example to execute with package names

Parameterization in TestNG using testng.xml

TestNG Test Case Priority

Multiple Tests with TestNG.XML

Timeout Test in TestNG

Skip Exception Test in TestNG

Logging with TestNG using Listeners

Groups in TestNG

TestNG XML example to execute Multiple Classes

Parallel Execution of test methods in TestNG

Preserver Order in Testng

Execute Testng.xml using batch file

Execute Testng.xml from command line

Optional annotation in TestNG

TestNG Annotations, Groups & OnDepends

TestNG Prioritizing & Sequencing

TestNG Reporters & Asserts

TestNG Parameters

Data Provider

Multi Browser, Cross Browser & Parallel Testing using TestNG

TestNG Listeners

Retry Failed Tests in TestNG

Implement IRetryAnalyzer to Retry Failed Test in TestNG Framework