Selenium is a suite of tools for automated web testing.  The latest version of Selenium is 3.0. Their website is http://seleniumhq.com

Selenium is composed of

* **Selenium IDE (Integrated Development Environment):** It is a tool for recording and playing back.  It is a plugin for the Firefox web browser
* **WebDriver and Remote Control (RC):**  a test tool that allows you to write automated tests for all modern browsers using Java, Python, .NET, PHP, etc.
* **Grid:** With the help of Grid you can distribute tests on multiple machines so that test can be run parallel which helps in cutting down the time required for running in browser test suites

# Enough Chat. How can I do something in Selenium?

First – make sure Java is installed. Go to the command line and type: java –version. Did you get a response? If you get a version number (which needs to be 1.5 or later), you’re ready to start using Selenium RC. If not, head over to <http://www.oracle.com/technetwork/java/javase/downloads/index.html> and install the latest JDK.

Note: For the server to run you’ll need Java installed and the PATH environment variable correctly configured to run it from the console.

Selenium has a set of libraries available in the programming language of your choice. You can download them from downloads page at <https://www.seleniumhq.org/download/>.

The Selenium RC server is simply a Java jar file (selenium-server-standalone-<version-number>.jar), which doesn’t require any special installation. Just downloading the zip file and extracting the server in the desired directory is sufficient.

Before starting any tests you must start the server. Go to the directory where Selenium RC’s server is located and run the following from a command-line console.

java -jar selenium-server-standalone-<version-number>.jar PS C:\Users\GBTC440015ur\Desktop\selenium> java -jar .\selenium-server-standalone-3.11.0.jar

10:30:00.352 INFO [GridLauncherV3.launch] - Selenium build info: version: '3.11.0', revision: 'e59cfb3'

10:30:00.368 INFO [GridLauncherV3$1.launch] - Launching a standalone Selenium Server on port 4444

2018-04-12 10:30:02.154:INFO::main: Logging initialized @9144ms to org.seleniumhq.jetty9.util.log.StdErrLog

10:30:04.394 INFO [SeleniumServer.boot] - Welcome to Selenium for Workgroups....

10:30:04.397 INFO [SeleniumServer.boot] - Selenium Server is up and running on port 4444

Now that the server is running we need to develop a script and do something.

In order to create scripts that interact with the Selenium Server (Selenium RC, Selenium Remote WebDriver) or create local Selenium WebDriver scripts, you need to make use of language-specific client drivers.