**Features of Selenium:**

* Selenium is a Web application Functional testing tool and Introduced year - 2004 by JASON Huggins.
* It is an Open source tool and free tool .
* Selenium is to do functional testing/regression testing of web application .
* Selenium and Applium both are used for Mobile application testing.
* Selenium WebDriver is the component used for writing automation scripts.
* Its does not have a front -end, so you have to write test scripts.
* These scripts can be written in JAVA, pyhton, ruby, C#, php.
* Selenium also has component IDE which has a UI and Selenium supports testing in all the browser like Cross browser testing: Chrome, Edge, ff, safari.

**Selenium contains stack of tools:**

**1. Selenium IDE : Integrated devlopment environment:**

Its features are-

--> It supports testing on Chrome and firefox browser.

--> It is record and playback tool.

-->It records users actions and you save that as a test and can Play it back as many times as you want.

-->Simple and easy to work with and The log section will show test step is success or failure, At the end in log you will get test executed successfully or it failed.

-->Suitable for testers who are new automation and Who don’t know how to write code.

**2. Selenium WebDriver :**

Selenium webdriver provides interfaces, classes and methods that help us find the element to be tested and automatically perform as action and What ever we did in IDE manually, we will do via code in webdriver.

Its features are-

-->supports testing on all browser.

--> Wait times.

--> Paramterized testing.

-->Integrate Webdriver with tools like testNG and cucumber that enhances the fetaures of selenium webdriver.

--> Data driven testing.

--> pritoritze test cases.

--> pre-condition, post condition and report generation.

**3. Selenium GRID :**

Its features are:

-->Grid is that component of selenium which is used only for execution.

-->We don’t write scripts using grid.

-->If you want to execute test cases in distributed environment then use grid.