**Selenium:-**

#. Selenium is a free and Open Source Web Application Automation tool.

#. Free means we need not to purchase and we can use it for Commercial Purpose.

#. Open Source means we can view the source code of selenium software itself and we can customized as per our requirement.

#. It is one of the most widely used open source Web UI Automation Testing tool.

#. Selenium supports automation across different browsers like chrome,firefox,edge,safari etc.

#. Selenium support automation across different Operating System like Windows , Mac,Linux etc.

#. It support different programming Languages:- Java,Python,.Net, PHP etc..

Official Website : <https://www.selenium.dev/>

**Automation Testing:-**

#. It is a technique to automate the manually deisgned test cases without any human intervention.

#. Automation Testing tools can access test data, it controls the execuion of tests and compare the actual result against the expected result.

#. It covers both functional and non-functional testing.

#. Functional automation is used for functional test cases.

#. Non Functional automation is used for automation of non-functional test cases.

**Why Automation Testing???**

#. It reduce the dependency of Manual Testing.

#. It Saves a lot of time.

#. Automation testing support frequent regression testing.

#. It provides rapid feedback.

#. Automation test execution generates reports.

1. SDLC :- Software Development Life Cycle

2. STLC :- Software Testing Life Cycle

3. ATLC :- Automation Testing Life Cycle