

## 1. What is Automation Testing?

→ Test automation is the use of software to control the execution of tests, the comparison of actual outcomes to predicted outcomes, the setting up of test preconditions, and other test control and test reporting functions. Commonly, test automation involves automating a manual process already in place that uses a formalized testing process.

→ Although manual tests may find many defects in a software application, it is a laborious and time consuming process. In addition it may not be effective in finding certain classes of defects. Test automation is a process of writing a computer program to do testing that would otherwise need to be done manually.

→ Once tests have been automated, they can be run quickly. This is often the most cost effective method for software products that have a long maintenance life, because even minor patches over the lifetime of the application can cause features to break which were working at an earlier point in time.

## 2. Which Are The Browsers Supported By Selenium Ide?

→ The Selenium IDE (Integrated Development Environment) is primarily available as a browser extension for the following major browsers: Google Chrome, Mozilla Firefox and Microsoft Edge

## 3. What are the benefits of Automation Testing?

→ **Speed** = Automation Scripts run very fast when compared to human users

→ **Reliable** = Tests perform precisely the same operations each time they are run, thereby eliminating human error.

→ **Repeatable** = We can test how the application reacts after repeated execution of the same operation

→ **Comprehensive** = We can build a suite of tests that covers every feature in our application

→ **Reusable** = We can reuse tests on different versions of an application, even if the user interface changes.

→ Automate your testing procedure when you have a lot of regression work.

→ Automate your load testing work for creating virtual users to check load capacity of your application.

## 4. What are the advantages of Selenium?

→ Simpler installation than Selenium RC

→ Communicates directly to the browser

- Browser interaction is more realistic
- No need for a separate component such as the RC Server
- Faster execution time than IDE and RC

**5. Why should testers opt for Selenium and not QTP?**

- Because Selenium is Open source, free to use, and free of charge.
- Highly extensible
- Can run tests across different browsers
- Supports various operating systems
- Supports mobile devices
- Can execute tests while the browser is minimized
- Can execute tests in parallel.