

Q.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.
- 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.
- Commonly, test automation involves automating a manual process already in place that uses a formalized testing process.
- In addition it may not be effective in finding certain classes of defects.

Q.2 • Which Are The Browsers Supported By Selenium Ide?

- **Firefox:** selenium IDE is a native extension for Firefox, so it works directly with the browser.(version 48 and above)
- **chrome :** selenium IDE uses the chrome Driver plugin to interact with chrome.(version 54 and above)
- **Edge:** selenium ide uses the Microsoft edge driver plugin to interact with edge.(version 13 and above)
- **Internet explorer:** selenium IDE uses the Internet explorer Driver server plugin to interact with internet explorer.(version 11 and above)
- **Safari:** selenium IDE uses the safari Driver plugin to interact with safari.
(version 10 and above)
- **Opera:** selenium IDE uses the opera Driver plugin to interact with opera.
(version 45 and above)

Q.3 • What are the benefits of Automation Testing?

- 1. Increased speed:** Automation testing is much faster than manual testing.
- 2. Improved Accuracy:** Automation testing is reduces the likelihood of human error.

- 3. Reduced testing time:** Automation testing can run multiple tests simultaneously.
- 4. Increased test coverage:** cover more test cases than manual testing.
- 5. Reduced testing cost:** reduces the need for manual testers.
- 6. Faster defect Detection:** defects earlier in the development cycle.
- 7. Improved regression testing:** it easier to run regression tests.
- 8. Increased reliability:** ensures consistent results.
- 9. better test data management:** it easier to run regression tests.
- 10. Improved collaboration:** enable teams to work together more effectively.
- 11. Reduced manual testing burden:** frees up manual testers to focus on more complex test.
- 12. improved testing efficiency:** Optimizes testing processes.

Q.4 • What are the advantages of Selenium?

- very easy to use and install.
- No programming experience is required, though the knowledge of HTML and DOM are needed.
- can exports test formats usable In selenium RC and Webdriver.
- has built in help and test result reporting module.
- Provides for support extensions.

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

Selenium is a free (open source) automated testing suite for web applications across different browsers and platforms.

It is quite similar to HP Quick Test Pro (QTP) only that Selenium focuses on automating web-based applications.

Selenium is not just a single tool but a suite of software's, each catering to different testing needs of an organization. It has four components.

- Selenium Integrated Development Environment (IDE)
- Selenium Remote Control (RC)
- Web Driver
- Selenium Grid.

