Advanced Selenium

Assignments Module – 1

(1) What is Automation Testing?

Ans : Automation testing is a software testing technique that uses automated testing tools to run test cases. It's used to validate software functionality and ensure it meets requirements before release. Automation testing minimizes human intervention and maximizes quality.

(2) Which Are The Browsers Supported By Selenium Ide?

Ans : Selenium IDE available for Google Chrome, Mozilla Firefox, and Microsoft Edge.

(3) What are the benefits of Automation Testing?

Ans :[1] Cost savings: Automated tests can be run repeatedly at no additional cost.

[2] Time savings: Automated tests can run faster than manual tests.

[3] Accuracy: Automated tests can be more reliable than manual tests.

[4] Bug detection: Automated tests can detect bugs earlier in the development process.

[5] Test coverage: Automated tests can provide wider coverage of application features.

[6] ROI: Automated tests can improve efficiency and software quality, resulting in a higher ROI.

[7] Reusability: Automated test scripts can be reused, reducing the cost and chances of human error.

[8] Features: Automated tests can emulate thousands of virtual users interacting with a web application.

Other benefits of automation testing include:

- Faster feedback loop
- Better resource allocation
- Increased efficiency
- Reduced errors
- Customer satisfaction
- Increased employee satisfaction and retention
- Eliminate paper-based processes
- Consistency
- Human intervention is not required while execution

(4) What are the advantages of Selenium?

Ans : [1] Flexibility

[2] Language and framework support

[3] Compatibility across multiple browsers

[4] Few advantages of selenium

[5] Parallel testing

[6] Easy implementation

[7] Open source

[8] Reusability

[9] Selenium supports various programming languages

[10] Cross browser compatibility testing

[11] Community support

[12] Ease of learning

[13] It supports multiple programming languages

[14] Less hardware usage

[15] Multiple device testing

[16] Support across various operations

[17] Works across multiple os

(5) Why testers should opt for Selenium and not QTP?

Ans : Selenium, however, supports a wide range of programming languages. QTP/UFT test scripts run only on the Windows environment. They cannot be run across all browsers. On the other hand, Selenium is OS independent and allows test scripts to run across all browsers.