1. What is Automation Testing?

-> Automation Testing is a software testing technique that performs using special automated testing software tools to execute a test case suite. On the contrary, Manual Testing is performed by a human sitting in front of a computer carefully executing the test steps.

The automation testing software can also enter test data into the System Under Test, compare expected and actual results and generate detailed test reports. Software Test Automation demands considerable investments of money and resources.

Successive development cycles will require execution of same test suite repeatedly. Using a test automation tool, it’s possible to record this test suite and re-play it as required. Once the test suite is automated, no human intervention is required. This improved ROI of Test Automation. The goal of Automation is to reduce the number of test cases to be run manually and not to eliminate Manual Testing altogether.

1. Which Are The Browsers Supported By Selenium Ide?

-> only for Google Chrome, Mozilla Firefox, and Microsoft Edge.

1. What are the benefits of Automation Testing?

-> Saves time

Productivity improvement

Accuracy improvement

Test suite reusability

Ability to test on various platforms

Running tests 24/7

Early bug detection

Less human resources

Reduce the expenses

Scalability of test cases

Consistency

Fast development and delivery

Easily execution of lengthy and complicated test cases

1. What are the advantages of Selenium?

-> Open Source

Multi-Language Support

Multi-Browser Support

Platform Support

Framework Availability

Flexibility

Reusability

Integrations

Parallel Test Execution and Faster Go-to-Market

Easy to Learn and Use

1. Why testers should opt for Selenium and not QTP?

-> 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.

##here are some objective reasons why testers might prefer Selenium over QTP:

#Cost: Selenium is a free and open-source tool, while QTP is a commercial tool that requires a license. This makes Selenium a more cost-effective option for small businesses or individual testers.

#Language Support: Selenium supports multiple programming languages such as Java, Python, C#, etc., while QTP only supports VBScript. This provides more flexibility to the testers in terms of language preference.

#Platform Support: Selenium supports multiple platforms such as Windows, Mac, and Linux, while QTP only supports Windows. This limits the testing capabilities of QTP.

#Community Support: Selenium has a large and active community of developers and testers who contribute to its development and provide support. QTP does not have such a large community.

#Integration: Selenium can easily integrate with other tools such as Jenkins, Maven, and Docker, while QTP has limited integration capabilities.

#Web-Based Applications: Selenium is specifically designed for testing web-based applications, while QTP is a general-purpose tool that can be used for testing various types of applications. This makes Selenium a better choice for web-based application testing.