**Advanced Selenium, Assignments Module – 5 (Selenium IDE)**

**Q. What is Automation Testing?**

Test automation refers to the practice of using software tools and scripts to automate the execution of tests in software development and quality assurance processes.

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

• **Reliable**–Tests perform precisely the same operations each time they are run,

there by 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 lot of regression work.

• Automate your load testing work for creating virtual users to check load

capacity of your application.

**Q. Which Are The Browsers Supported By Selenium Ide?** **Thesupported browsers include Mozilla Firefox, Google Chrome, Microsoft Edge, Safari, and Opera, among others. Selenium WebDriver allows you to write tests in various programming languages (including Java, C#, Python, and more) and execute them on different browsers using the corresponding WebDriver implementations.**

Q. **What are the benefits of automation Testing**

- In comparison to manual testing, automation testing requires fewer resources.

-It makes load and performance testing, stress testing, and reliability testing possible.

-It is more reliable, as it reduces the occurrence of errors. It is reliable because it tests the application with the help of tools and test scripts.

-With automation testing, test engineers are free to focus on other work.

-It improves the testing coverage as the automatic execution of test cases is faster than manual execution.

-Automation testing allows the execution of test cases in a 24x7 environment.

-It enhances the knowledge of test engineers by producing a repository of different test cases.

-Batch execution is possible using automation testing because all the written scripts can be executed simultaneously.

-Automation testing is 70% faster than manual testing.

**Q. What are the advantages of Selenium?**

-supports all browsers like IE, firefox, Mozilla ,supports all operating system.

-open source.

-Supports all programming languages Java ,Ruby,C# and Python Run multiple tests at a time Open Source .

**Q. Why tester should opt for selenium and not QPT?**

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.