**Module 5**

**Selenium IDE**

**Q.1 What is Automation Testing?**

**Ans.** Automation testing is a software testing technique that automates the process of validating the functionality of software and ensures it meets requirements before being released into production.

Automation testing is a software testing technique that performs using special automated testing software tools to execute a test case suite.

**Q.2 Which Are the Browsers Supported by Selenium Ide?**

**Ans.** Selenium IDE (Integrated Development Environment) is primarily a record/run tool that a test case developer uses to develop Selenium Test cases.

Browsers supported by selenium are: Google chrome, Internet explorer 7 onwards, Safari, Opera, Firefox.

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

**Ans.**

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.

Automation testing requires fewer people to perform a tedious manual test.

**Q.4 What are the advantages of Selenium?**

**Ans.**

* Selenium is an open-source automation testing tool and it is free of cost to use.
* Selenium provides high tester flexibility to write advanced and complex test cases.
* Supports test scripts written in any user-preferred languages such as C#, Java, Perl, PHP, Python, and Ruby
* Supports test case execution on multiple operating systems such as Windows, Linux, Android, Mac, and iOS.
* Supports testing on different web browsers such as Chrome, Firefox, Internet Explorer (IE), Opera, and Safari.
* Test cases can be executed while the browser window is minimized.
* Selenium supports parallel test execution.
* Selenium can be integrated with TestNG and JUnit to generate test reports and manage test cases.
* Selenium can be integrated with Jenkins, Docker, and Maven to attain continuous testing.

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

**Ans.**

1. Selenium supports a wide range of programming languages. Whereas QTP only supports the VBScript programming language. Test scripts cannot be written in any other language
2. Selenium is OS independent and allows test scripts to run across all browsers. Whereas QTP test scripts run only on the Windows environment. They cannot be run across all browsers.
3. QTP does not support different IDEs. It works only on QTP developed IDEs.
4. Selenium is completely free of cost and QTP is not free
5. Selenium can execute tests while the browser is minimized and QTP Needs to have the application under test to be visible on the desktop.
6. Selenium Can execute tests in parallel whereas QTP Can only execute in parallel but using Quality Center which is again a paid product
7. Selenium Supports mobile devices and QTP Supports mobile device using 3rd party software which cannot be free

**Q.6 To validate the Swaglab website Login and logout process page** [**https://www.saucedemo.com**](https://www.saucedemo.com)

**Ans.**

