**ASSIGNMENT MODULE = 4 [AUTOMATION CORE TESTING]**

1. **Which components have you used in Load Runner?**

* There are three components in Load Runner: (1) virtual user generator

(2) controller

(3) analysis

1. **How can you set the number of “Vusers” in Load Runner?**

* **Step 1:** open the virtual user generator tool.
* **Step 2:** record the vuser script.
* **Step 3:** playback the script.
* **Step 4:** click the tool option.
* **Step 5:** now you can select the vuser numbers.

1. **What is Correlation?**

* Correlation is a statistical measure that expresses the extent to which two variables are linearly related,
* It is a common tool for describing simple relationships without making a statement about cause and effect.
* Correlations are also tested for statistical significance.

1. **What is the process for developing a vuser Script?**

* A vuser script may be created in four steps:

STEP 1: record the vuser script.

STEP 2: playback and improve the recorded vuser script.

STEP 3: define and test the different run-time parameters.

STEP 4: use the scripts in a Load Runner scenario.

1. **How Load Runner interacts with the application?**

* Load runner simulates user activity by generating message between application components or by simulating interactions with the user interface such as key presses or mouse movements. The messages and interactions to be generated are stored in scripts. Load runner can generate the scripts by recording them, such as logging HTTP requests between a client web browser and an application’s web server.

1. **How many VUser are required for Load Testing?**

* There are only 50 vusers set without paid but after 50 vusers you can set vusers with paid.

1. **What is relationship between Response time and Throughput?**

* It is a opposite relationship between response time and throughput. Because of two reasons given, first of all, when your throughput during a test decreases, your response time increase, and when your throughput increases, your response time would be relatively good. Secondly reason is a since more data is being sent through the server, thus the server is able to process requests faster, and hence your response time would time would be relatively lower.

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.
* Commonly, test automation involves automation a manual process already in place that user a formalized testing process.

1. **Which are the Browsers Supported By Selenium Ide?**

* Currently, Firefox, chrome, edge, IE and safari are supported the Selenium Ide with automate that browser through a record and playback feature.

1. **What are the benefits of Automation Testing?**

* **Speed:** automation scripts run very fast when compared to human users.
* **Reliable:** tests perform precisely the same operations each time they are run, there are 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.

1. **What are the advantages of Selenium Ide?**

* very easy to use and install.
* No programming experience is required, through knowledge of HTML and DOM are needed.
* It can export tests to formats usable in Selenium RC and WebDriver.
* It has built in help and test results reporting module.
* Provides support for extensions.

1. **Why tester should opt for selenium and not QTP?**

* Selenium is a free (open source) automated testing suite for web applications across different browsers and platforms but QTP is a only selenium focuses on automating web based application. That’s why tester used opt for selenium not QTP.