**MODUEL-4 (AUTOMATION CORE TESTING)**

* **Which components have you used in Load Runner?**
* Load Generator
* VuGen
* Controller
* Analysis
* **How can you set the number of V-users in Load Runner?**

Set the number of V-users in the controller section while creating the scenarios

When Creating Scenario in Controller we have to add the particular script which we want to run. There we have to set the number of V-users to run for that script. but you have to add V-users depending on the Load Runner license for how many V-users it supports.

* **What is Correlation?**

Correlation is the capturing of dynamic values passed from the server to the client and back. We save this captured value into a load runner parameter, and then use this parameter in the script in place of the original value.

* **What is the process for developing a V-user Script?**
* Record the V-user script
* Playback and improve the recorded V-user script
* Define and test the different run time parameters
* Use the script in a load runner scenario
* **How Load Runner interacts with the application?**

Load Runner simulates user activity by generating messages 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.

* **How many V-Users are required for load testing?**

Concurrent virtual user calculation

For example, if you run a load test with 10,000 virtual users, each making a request every 20 seconds (3 requests per minute), then you're making 30,000 requests per minute, which equals 500 requests per second.

* **What is the relationship between Response Time and Throughput?**

Response time and throughput are related. The response time for an average transaction tends to decrease as you increase overall throughput. However, you can decrease the response time for a specific query, at the expense of overall throughput, by allocating a disproportionate number of resources to that query.

* **What is the difference between hits/second and requests/second?**

Hits per second means the number of hits the server receives in one second from the v-user. Request per second is the number of request the v-user will request from the server.

* **What is Automation Testing?**

Automation testing is a type of software testing that involves automated test case executing using an automation tool, basically, it automates the manual testing process. The tester writes test scripts and then runs the test scripts either on-demand or schedule them for periodic executions. This reduces the overall testing time, thus helping in faster product releases.

* **Which Are the Browsers Supported by Selenium Ide?**
* Browsers supported by selenium are:
* Google chrome
* Internet explorer 7 onwards
* Safari
* Opera
* Firefox.
* **What are the benefits of Automation Testing?**
* Faster Feedback Cycle
* **Testing on Multiple Platforms in Parallel**
* **Reusability of Test Scripts**
* **Easy Data-driven Testing**
* **Maximum Test Coverage**
* **Scalability**
* **Enhance the Quality of Manual Testing**
* **Effective Smoke Testing**
* **Better Regression Testing**
* **Reduce the Time to Release**

* **What are the advantages of Selenium?**
* Very easy to use and install
* No programming experience is required, through knowledge of html and dom are needed
* Provides support for extensions.
* **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.