**Module -5**

**• Which components have you used in Load Runner?**

The components of LoadRunner are The **Virtual User Generator, Controller, and the Agent process, LoadRunner Analysis and Monitoring, LoadRunner Books Online**.

**• How can you set the number of Vusers in Load Runner?**

1. Go to LoadRunner installation folder C:\Program Files (x86)\HP\LoadRunner\dat\protocols.
2. Find . ...
3. Edit it: paste MaxThreadPerProcess=10 after [Vugen] . ...
4. HP LoadRunner Controller should be restarted so that changes could take effect.

**• What is Correlation?**

Correlation is **the process of extracting some value from the response of one step into the request of another step**. It captures and stores the dynamic response from the server and passes it on to subsequent requests.

Correlated data is data which is sent to the client from the server, and later sent back to the server by the client

**• What is the process for developing a Vuser Script?**

1. recording the vuser script .
2. edit the vuser script.
3. runtime setting .
4. run the vuser script in stand-alone mode.
5. incorporate the vuser script into a load runner scenario.

**• How Load Runner interacts with the application?**

LoadRunner 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 VUsers are required for load testing?**

concurrent users) x (requests per user per minute) = total requests per minute

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?**

In terms of load/Performance testing. Throughput and Response times are inversely proportional. i.e With increase in response time throughput should decrease. With increase in Throughput response time should decrease.

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

Hits/second are the number of HTTP requests made by VUsers to the Web Server in a scenario or session step run on a per second basis.

Requests/second are the number of requests completed during each second of scenario run.

**• 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 automating a manual process already in place that uses a formalized testing process.

Although manual tests may find many defects in a software application, it is a laborious and time consuming process.

In addition it may not be effective in finding certain classes of defects.

Test automation is a process of writing a computer program to do testing that would otherwise need to be done manually.

Once tests have been automated, they can be run quickly.

**• Which Are The Browsers Supported By Selenium Ide?**

* Chrome.
* Edge.
* Firefox.
* Internet Explorer.
* Safari.

**• What are the benefits of Automation Testing?**

* 70% faster than the manual testing
* Wider test coverage of application features
* Reliable in results
* Ensure Consistency
* Saves Time and Cost
* Improves accuracy
* Human Intervention is not required while execution
* Increases Efficiency
* Better speed in executing tests
* Re-usable test scripts
* Test Frequently and thoroughly
* More cycle of execution can be achieved through automation
* Early time to market

**• What are the advantages of Selenium?**

* Open source, free to use, and free of charge.
* Highly extensible
* Can run tests across different browsers
* Supports various operating systems
* Supports mobile devices
* Can execute tests while the browser is minimized to be visible on the desktop
* Can execute tests in parallel.

**• Why testers should opt for Selenium and not QTP?**

Disadvantages of QTP over Selenium are

* commercial
* Limited add-ons
* Can only run tests in Firefox , Internet Explorer and Chrome
* Can only be used in Windows
* Supports mobile devise using 3rd party software
* Needs to have the application under test
* Can only execute in parallel but using Quality Center which is again a paid product.