**Module 5 (Load Runner Up and Selenium IDE)**

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

The key components of LoadRunner are: **Load Generator** generates the load against the application by following scripts. VuGen (Virtual User Generator) for generating and editing scripts. Controller controls, launches and sequences instances of Load Generator - specifying which script to use, for how long etc.

**Operating system:**[Microsoft Windows](http://en.wikipedia.org/wiki/Microsoft_Windows) and Linux ...

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

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

In the Vusers dialog box, click the Add Vuser(s)button. The Add Vusers dialog box opens. From the Quantity to add box, select the number of Vusers that you want to add to the group

**New VUser**

Click on New Vuser

Select the new Virtual User from the list of protocols

Click OK

The required header files are automatically included in the scrip



1. **What is Correlation?**

In applications output of the previous transaction is used as an input for the next transaction.

For example:

System generated session ids

URLs that change each time you access the Web page

Fields (sometimes hidden) recorded during a form submission

The data is only good for the current session

**Manual Correlation**

Determine the value to capture

Find the right and left text boundaries of the value to capture

Find which occurrence of the text boundaries should be used

Add a web\_reg\_save\_param function to the script, above the step which requests the page

with the value to capture

Add the parameter name, left boundary, right boundary, and occurrence to the function

Parameterize the dynamic value in the script every time it occurs

Verify correct execution

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

**There are 5 steps 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.
6. **How Load Runner interacts with the application?**

LoadRunner is a software testing tool from Micro Focus. It is used to test applications, measuring system behaviour and performance under load. LoadRunner can **simulate thousands of users concurrently using application software, recording and later analyzing the performance of key components of the application**.

1. **How many VUsers are required for load testing?**

Eg. In above scenario, if after 10 mins, a virtual user is made to make multiple iterations and thus make 6 iterations in an hour the number of concurrent users required (for the performance test) can be substantially reduced to **100 vusers**.

1. **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 amount of resources to that query. Conversely, you can maintain overall throughput by restricting the resources that the database allocates to a large query.

1. **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 vuser. Request per second is the number of request the vuser will request from the server.

1. **What is Automation Testing?**

Automated testing is **a process that validates if software is functioning appropriately and meeting requirements before it is released into production**. This software testing method uses scripted sequences that are executed by testing tools.

1. **Which Are The Browsers Supported By Selenium Ide?**

Selenium IDE has add-ons for **Firefox and Chrome** browsers. Selenium IDE comes with a rich set of commands that are powered by Selenese and it allows you to record and test different interactions of a web application with the browser.

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

* Enhanced Results. Since automation testing saves plenty of time even when complex and enormous systems are taken into consideration. ...
* Swifter Feedback system. ...
* Brand Enhancement. ...
* Cost-effective. ...
* Efficiency Testing. ...
* Increase in Coverage Area. ...
* Detailed Testing. ...
* Reusability.

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

* Open-Source:
* Supports Operating Systems:
* Support across browsers:
* 6.Tests across devices.
* 7.Constant updates.
* 9.Ease of implementation.
* 10.Reusability and Add-ons.

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

**Selenium executes tests within the browser, so not much attention is needed during script execution**. QTP tool acts by mimicking user actions on the browser; hence it needs attention from the tester. Selenium can run tests in parallel with Selenium Grid.