**MODUL - 4**

1. Which components have you used in load runner?

Load Generator - It is used to generate the load against the application by running the script.

VuGen - It is used for generating and editing scripts.

Controller - It is used to control, launch, and sequence the instance of a Load Generator.

Agent Process - It is used to manage the connection between the Controller and Load Generator instances.

Analysis - It assembles the logs from different load generators and formats the reports for visualization of results and monitoring data.

1. How can you set the number of Vuser in load runner?

You can set the number of Vusers in the controller section while creating your scenarios. Many other advanced options like ramp-up, ramp-down of Vusers are also available in the Controller section.

1. What is correlation?

The word correlation is used in everyday life to denote some form of association. We might say that we have noticed a correlation between foggy days and attacks of wheeziness. However, in statistical terms we use correlation to denote association between two quantitative variables.

1. What is the process for developing a vuser script?

recording the vuser script

edit the vuser script

runtime setting

run the vuser script in stand-alone mode

incorporate the vuser script into a load runner scenario.

1. How load runner interacts with the application?

Protocol is used in Load Runner to interact with the application.

1. How many Vuser are required for load testing?

The number of VUsers required depends on your system under test, network configurations, hardware settings, memory, operating system, software applications objective of a performance test. There can not be any generic value for Vuser.

1. What is the relationship between Response time and throughput?

The configuration of our systems refers to that of the client machines on which we run the Vusers. The configuration of any client machine includes its hardware settings, memory, operating system, software applications, development tools, etc. This system component configuration should match with the overall system configuration that would include the network infrastructure, the web server, the database server, and any other components that go with this larger system so as to achieve the load testing objectives.

1. What is the difference between hits/second and requests/second?

Hits per sec is the number of calls to the Webserver per second.

And Request per sec is the number of request made to the webserver per second.

Point to be notice here is "one Request may have many calls(Hits)".

1. What is the automation testing?

Automation testing is a Software testing technique to test and compare the actual outcome with the expected outcome. This can be achieved by writing test scripts or using any automation testing tool. Test automation is used to automate repetitive tasks and other testing tasks which are difficult to perform manually.

1. Which are the browser 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 advantage of selenium?

1) Selenium is free and open-source software.

2) Selenium supports a variety of programming languages for creating programmes (Test scripts)

3) Selenium is compatible with a variety of operating systems (MS Windows, Linux, Macintosh etc.

4) Selenium works with a variety of browsers (Mozilla Firefox, Google Chrome, IE, Opera, Safari)

5) Parallel test execution is supported by Selenium.

6) Selenium consumes less hardware.

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

Selenium is an open source whereas QTP is a commercial tool

Selenium is used specially for testing web based applications while QTP can be used for testing client server application also

Selenium supports Firefox, IE, Opera, Safari on operating systems like Windows, Mac, Linux etc. however QTP is limited to Internet Explorer on Windows.

Selenium supports many programming languages like Ruby, Perl, Python whereas QTP supports only VB script