**MODULE – 4**

**AUTOMATION CORE TESTING**

**(LOAD RUNNER UP AND SELENIUM IDE)**

1. **Which components have you used in load runner?**

**Virtual user generator** – it records User scripts that emulate the step of real users using the application

**Controller** – it is an administrative center for creating, maintaining and executing scenarios.

**Analyzer –** user the load test results to create graphs and reports that are used to correlate system information and identify both bottleneck and performance issues

1. **How can you set the number of Vusers are required for load testing?**

Set the number of Vusers in load runner in the controller section while creating scenarios. The default value is 1.

1. **What is Correlation**

Correlation is a statistical measure that indicates the extent to which two or more variables fluctuate in relation to each other.

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

Step-1 record the Vusers script

Step-2 Playback and improve the recorded vusers script

Step-3 define and test the different run-time parameters

Step-4 use the script in a load runner scenario

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

Load runner simulates user activity by generating messages between application components by simulating interactions with the user interface such as key presses or mouse movements

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

The number of vusers in the test script

The number of test engine instances

The test plan

The number of listeners and their nature

The peak hourly visit rate

The average visit length

1. **What is the relation 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

1. **What is the difference between hits/second and request/second/**

Hits per second refers to the number of HTTP requests sent by the user to the web server in a second. In terms of performance testing. There is a major difference in transactions per second and hits per second.

**SELENIUM IDE**

1. **What is Automation testing?**

Automation testing is the application of software tools to automate a human-driven manual process of reviewing and validating a software product

1. **Which are browsers supported by selenium Ide?**

The supported browsers included Mozilla firefox, googlechrome, Microsoft edge, safari, and opera, among others

1. **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
* Increases efficiency
* More cycle of execution can be achieved through automation
* Early time to market

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

* Very easy to use and install
* Can export test to formats usable in selenium RC and web drive
* Provides support for extensions
* No programming experience is required, through knowledge of HTML and DOM are needed

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

Selenium is OS independent and allows test scripts to run across all browsers.