# **Module-5**

# **Automation Core Testing (Load Runner Up and Selenium IDE)**

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

The key components of LoadRunner are:

1. **V-users generator –** For generating Scripts.
2. **Controller –** For creating and executing scenarios.
3. **Analyzer –** To analyse results.

**2.How can you set the number of V-users in Load Runner?**

You can set the number of V-users in controller section while creating your scenarios.

Tools> Create Controller Scenario > Number of V-users > Ok > Opens HP Load Controller > Click on Initialize > Opens Edit Action Box > Fulfil All the conditions and apply.

**3.What is Correlation?**

Correlation is used to obtain data which is unique for each run of your test script (ex: session ids). While recording, these dynamic values are hard-coded in your script causing the script to fail during playback. Correlation is a technique where dynamic values are not hard-coded in your script but are extracted at run-time to avoid failure.

**4.What is the process for developing a V-user Script?**

A V-user script may be created in four steps.

* Step 1- Record the V-user Script.
* Step 2- Playback and improve the recorded V-user script.
* Step 3- Define and test the different run-time parameters.
* Step 4- Use the script in a LoadRunner scenario.

**5.How Load Runner interacts with the application?**

Load Runner simply stimulates the actions of multiple simultaneous users, which generates load on the system (App), and then measures the time the system (App) takes to respond to user commands.

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

The number of V-Users required, depends on your system under test, network configurations, hardware settings, memory, operating system, software applications objective of a performance test. There cannot be any generic value for V-user.

**7.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.

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

Hits per second mean 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.

**Selenium IDE)**

**1. What is Automation Testing?**

Automation Testing is a software testing technique that performs using special automated testing software tools to execute a test case suite. On the contrary, Manual Testing is performed by a human sitting in front of a computer carefully executing the test steps.

The automation testing software can also enter test data into the System Under Test, compare expected and actual results and generate detailed test reports. Software Test Automation demands considerable investments of money and resources.

Successive development cycles will require execution of same test suite repeatedly. Using a test automation tool, it’s possible to record this test suite and re-play it as required. Once the test suite is automated, no human intervention is required. This improved ROI of Test Automation. The goal of Automation is to reduce the number of test cases to be run manually and not to eliminate [Manual Testing](https://www.guru99.com/manual-testing.html) altogether.

**2.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 Sienese, and it allows you to record and test different interactions of a web application with the browser.

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

Advantages commonly attributed to automation include higher production rates and increased productivity, more efficient use of materials, better product quality, improved safety, shorter workweeks for labour, and reduced factory lead times.

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

Advantages of Selenium

Selenium is an open-source automation testing tool and it is free of cost to use. Selenium provides high tester flexibility to write advanced and complex test cases. Supports test case execution on multiple operating systems such as Windows, Linux, Android, Mac, and iOS.

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

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

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