**Module-4 Automation Core Testing**

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

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

**Vuser generator –** For generating Scripts

**Controller –** For creating and executing scenarios

**Analyzer –** To analyze results.

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

There are 4 steps for developing a vuser script.

1. Record the Vuser Script .
2. Playback / Enhance the recorded vuser script.
3. Define the various run-time settings & check
4. Incorporate the script in a Load runner scenario

Q **How many VUsers 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 performance test. There can not be any generic value for Vuser.

**How can you set the number of Vusers in Loadrunner ?**

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.

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

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

**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.

**What is the relationship between Response Time and Throughput?**

The Throughput shows the amount of data in bytes that the Vusers received from the server in a second. When It is compared with transaction response time, throughput and response time get decreased. The peak throughput and highest response time would occur approximately at the same time.

**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.

What are the advantages of Selenium?

* Selenium is open source and free to use without any licensing cost.
* It supports multiple languages like Java, Ruby, Python, etc.
* Selenium supports multi-browser testing.
* It has vast resources and helping-community over the internet.
* Using the Selenium IDE component, non-programmers can also write automation scripts.
* Using the Selenium Grid component, distributed testing can be carried out on remote machines.

**Which browsers/drivers are supported by Selenium Webdriver?**

Ans. Some commonly used browsers supported by Selenium are-Google Chrome – ChromeDriver

1. Firefox – FireFoxDriver
2. Internet Explorer – InternetExplorerDriver
3. Safari – SafariDriver
4. HtmlUnit (Headless browser) – HtmlUnitDriver
5. Android – Selendroid/Appium
6. IOS – ios-driver/Appium

**What is Automation Testing?**

Automation testing is a type of software testing that involves automated test case execution using an automation tool.

What are the benefits of Automation Testing?

1. **Saves Time and Money**
2. **Increases Test Coverage**
3. **Improves Accuracy**
4. **Helps Achieve Continuous Testing**
5. **Enables Reusability**
6. Offers Faster Feedback
7. **Improves Team’s Morale**
8. **Promises Information Security**
9. **Easy Reporting Makes Life Easier**
10. **Offers Scalability**