**MODULE 4**

1) Which components have you used in Load Runner?

* LoadRunner consists of three main components: Virtual User Generator (VuGen), Controller, and Analysis.

2) How can you set the number of Vusers in Load Runner?

* If you already added your script, you will find an entry for it in the "Groups" grid. In that grid there's also a column for "Vusers". For your script the value will be set to 1 by default. If you want to increase that number, just double-click on the grid to edit the value.

3) What is Correlation?

* Correlation in LoadRunner is a critical process that ensures the smooth execution of scripts during load testing.

4) What is the process for developing a Vuser Script?

* **There are 5 steps 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.

5) How Load Runner interacts with the application?

* LoadRunner simulates user activity by generating messages between application components or by simulating interactions with the user interface such as key presses or mouse movements. The messages and interactions to be generated are stored in scripts.

6) How many VUsers are required for load testing?

* Concurrent virtual user calculationFor example, if you run a load test with 10,000 virtual users, each making a request every 20 seconds (3 requests per minute), then you're making 30,000 requests per minute, which equals 500 requests per second.

7) What isthe 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.

8) What is Automation Testing?

* Automated testing is a software testing technique that automates the process of validating the functionality of software and ensures it meets requirements before being released into production. With automated testing, an organization can run specific software tests at a faster pace without human testers. Automated testing is best suited for large or repetitive test cases.

9) Which Are the Browsers Supported by Selenium Ide?

* Currently, Firefox, Chrome, Edge, IE, and Safari are supported, and the Selenium IDE has great documentation on how to configure your environment.

10) What are the benefits of Automation Testing?

* [Core Benefits of Automation Testing](https://www.browserstack.com/guide/benefits-of-automation-testing#toc0)
  + [1. Saving Costs](https://www.browserstack.com/guide/benefits-of-automation-testing#toc1)
  + [2. Faster Feedback Loop](https://www.browserstack.com/guide/benefits-of-automation-testing#toc2)
  + [3. Better Allocation of Resources](https://www.browserstack.com/guide/benefits-of-automation-testing#toc3)
  + [4. Guarantees Higher Accuracy](https://www.browserstack.com/guide/benefits-of-automation-testing#toc4)
  + [5. Increased Test Coverage](https://www.browserstack.com/guide/benefits-of-automation-testing#toc5)
  + [6. Detects bugs earlier](https://www.browserstack.com/guide/benefits-of-automation-testing#toc6)
  + [7. Test at Scale](https://www.browserstack.com/guide/benefits-of-automation-testing#toc7)
  + [8. Maximizes ROI](https://www.browserstack.com/guide/benefits-of-automation-testing#toc8)
* [Run Automation Testing on Real Devices](https://www.browserstack.com/guide/benefits-of-automation-testing#toc9)

11) What are the advantages of Selenium?

* Open-Source Availability. Open-source availability is one of the many advantages of using Selenium. ...
* Support for Major Languages. ...
* Flexible Test Management. ...
* Multi-Browser Use. ...
* Easy Cross-Device Testing. ...
* Reusable Automation Test Suites. ...
* Simple Framework for Users. ...
* Enhanced Collaboration.

12) Why should testers opt for Selenium and not QTP?

* Selenium, however, supports a wide range of programming languages. QTP/UFT test scripts run only on the Windows environment. They cannot be run across all browsers. On the other hand, Selenium is OS independent and allows test scripts to run across all browsers.