

**Module -5 (Load Runner Up and Selenium IDE)**

* Which components have you used in Load Runner?

A1- Components of load runner is: Virtual user generator, Controller and Analysis.

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

A2- 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.

* What is Correlation?

A3- Correlation in performance testing is used to account for dynamic values. Many web applications have dynamic data that changes every time the user runs that web application. Web applications often need to track user’s interactions as they navigate through their website while preserving their state between navigations.

* What is the process for developing a Vuser Script?

A4- here are 5 steps for developing a vuser script.

1. recording the vuser script.
2. edit the vuser script.
3. runtime setting.
4. run the vuser script in stand-alone mode.
5. incorporate the vuser script into a load runner scenario.

* How Load Runner interacts with the application?

A5- Protocol is used in Load Runner to interact with the application. LoadRunner simulates user activity by generating messages between application components or by simulating interactions with the user interface such as keypresses or mouse movements. The messages and interactions to be generated are stored in scripts.

* How many VUsers are required for load testing?

A6- To calculate how many users required to generate specific views, you'll need to know the following:

1) number and type of transactions users are executing.

2) The response time of the page(s) being executed.

3) the speed of the users executing the test script(s).

* What is the relationship between Response Time and Throughput?

A7- 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. Conversely, you can maintain overall throughput by restricting the resources that the database allocates to a large query.

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

A8- 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 is Automation Testing?

A9- Automation Testing is the method of testing software products with special testing tools and frameworks to minimize human intervention and maximize quality. Automation Testing is done with the help of automation software, and it controls the flow of the execution of tests as per the written test scripts. They are then compared with predicted outcomes to ensure the quality and reliability of the application. With Automation Testing, one can perform necessary repetitive tasks and those tasks that are hard to achieve with manual testing.

* Which Are the Browsers Supported by Selenium Ide?

A10- Both Chrome and Firefox are supported by Selenium Ide.

* What are the benefits of Automation Testing?

A11- The top 10 benefits of Automation testing

1. Enhanced Results
2. **Swifter Feedback system**
3. Brand Enhancement
4. Cost effective
5. Efficiency testing
6. Increase in coverage area
7. Detailed testing
8. Reusability
9. Earlier detection of defects
10. Market updated

* What are the advantages of Selenium?

A12- The benefits of Selenium Test Automation hold relevance across diverse business segments.

1. Open-Source:
2. Supports Operating Systems:
3. Support across browsers:
4. 6.Tests across devices.
5. 7.Constant updates.
6. 9.Ease of implementation.
7. 10.Reusability and Add-ons.

* Why testers should opt for Selenium and not QTP?

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| Selenium | QTP |
| Open source, free to use, free of charge | Commercial |
| Highly extensible | Limited add-ons |
| Can run tests across different browsers | Can run tests only in fire-fox, chrome and Internet explorer |
| Supports various operating systems | Can be used only in windows |
| Supports mobile devices | Supports mobile devices using 3rd party software |
| Can execute tests in parallel | Can execute in parallel but using Quality center, which is paid |