# Module-4 Automation Core Testing (Load Runner Up and Selenium IDE)

1. Which components have you used in Load Runner?
2. How can you set the number of V users in Load Runner?
3. What is Correlation?
4. What is the process for developing a V user Script?
5. How Load Runner interacts with the application?
6. How many V Users are required for load testing?
7. What is the relationship between Response Time and Throughput?
8. What is Automation Testing?
9. Which Are The Browsers Supported By Selenium Ide?
10. What are the benefits of Automation Testing?
11. What are the advantages of Selenium?
12. Why testers should opt for Selenium and not QTP?

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

==>Load Runner consists of three main components: Virtual User Generator (VuGen), Controller, and Analysis.

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

==> Go to LoadRunner installation folder C:\Program Files (x86)\HP\LoadRunner\dat\protocols

==>Find .lrp file that is corresponding to the protocol you use to create VuGen Script. In my case it was Java\_protocols.lrp file for the protocol Java Record Replay.

==>Edit it: paste MaxThreadPerProcess=10 after [Vugen]. Or edit this variable if it already exists.

==>HP LoadRunner Controller should be restarted so that changes could take effect.

**3] What is Correlation?**

==>Correlation describes the relationship between variables. It can be described as either strong or weak, and as either positive or negative.

**4] What is the process for developing a V user 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 V Users are required for load testing?**

==> Virtual User Calculator for Load Testing

==>Peak Hour Page Views.

==>Session Length in Seconds.

==>Test Duration in Minutes.

==>Concurrent Users.

**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 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.

**9] Which Are The Browsers Supported By Selenium Ide?**

==>Selenium IDE is available for both Chrome and Firefox as a browser extension.

**10] What are the benefits of Automation Testing?**

==> Automated Testing Helps Developers and Testers

==>Tests can run automatically whenever source code changes are checked in and notify the team or the developer if they fail.

==>Features like these save developers time and increase their confidence.

==>Saving Costs.

==>Faster Feedback Loop.

==>Better Allocation of Resources.

==>Guarantees Higher Accuracy.

==>Increased Test Coverage.

==>Detects bugs earlier.

==>Test at Scale.

==>Maximizes ROI.

**11] What are the advantages of Selenium?**

==>Language and Framework Support.

==>Open Source Availability.

==>Multi-Browser Support.

==>Support Across Various Operations.

==>Ease of Implementation.

==>Reusability and Integrations.

==>Flexibility.

==>Parallel test execution and faster market launch.

**12] Why testers should opt for Selenium and not QTP?**

==>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.