

Module-4 Automation Core Testing (Load Runner Up and Selenium IDE)	
Que-1	Which components have you used in Load Runner?
Ans-1	LoadRunner consists of three main components: Virtual User Generator (VuGen), Controller, and Analysis.
Que-2	How can you set the number of Vusers in Load Runner?
Ans-2	Certainly! In LoadRunner, you can set the number of Virtual Users (Vusers) in the Controller section while creating your scenarios. Additionally, you'll find other advanced options like ramp-up and ramp-down of Vusers available in the Controller settings
Que-3	What is Correlation?
Ans-3	Correlation in LoadRunner is a critical process that ensures the smooth execution of scripts during load testing. It handles the dynamic nature of client-server communication, making scripts more robust and reliable.
Que-4	What is the process for developing a Vuser Script?
Ans-4	<p>1. Create a Blank Script: Open VuGen (Virtual User Generator). Choose File > New Script and Solution or click the New Solution button. In the Create a New Script dialog, select the protocol you'll use for the script. Enter a name for the script (avoid names like "init," "run," or "end"). Click Create to generate the blank Vuser script1.</p> <p>2. Record User Actions: Record the user's interactions with the application under test. VuGen captures these actions and creates the script based on the chosen protocol.</p> <p>3. Edit the Script: Enhance the script by adding logic, parameterization, and validations. Customize it to simulate realistic user behavior.</p> <p>4. Runtime Settings: Configure runtime settings such as the number of Vusers, duration, and think time. Define any additional settings specific to your scenario.</p> <p>5. Run in Stand-Alone Mode: Test the script independently to ensure it works as expected. Debug any issues that arise during execution.</p> <p>6. Incorporate into LoadRunner Scenario: Integrate the Vuser script into a LoadRunner scenario. Combine multiple Vusers to simulate realistic load and measure system performance</p>
Que-5	How Load Runner interacts with the application?
Ans-5	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. These messages and interactions are stored in scripts, which allow LoadRunner to emulate real-world scenarios and test the application's performance under various loads
Que-6	How many VUsers are required for load testing?
Ans-6	The number of VUsers (Virtual Users) required for load testing depends on several factors, including the application's complexity, expected user load, and performance goals
Que-7	What is the relationship between Response Time and Throughput?
Ans-7	<p>Response time and throughput are related in performance testing. Let's break it down:</p> <p>Response Time: Definition: Response time (also known as latency) is the total time a system takes to process a request from the moment it's sent until the last response is received. Measurement: It includes both the time spent waiting in queues (queuing time) and the actual service time (processing time). Goal: Lower response time is desirable for better user experience.</p> <p>Throughput: Definition: Throughput represents the number of requests processed per unit of time (e.g., requests per second). Calculation: $\text{Throughput} = (\text{Number of requests}) / (\text{Total time})$. Goal: Higher throughput indicates better system capacity.</p> <p>Relationship: Inverse Proportion: Generally, as response time increases, throughput decreases. When the system is under load, longer response times impact throughput. Resource Allocation: Allocating more resources (e.g., CPU, memory) can improve throughput but may increase response time for specific queries. Steady State: Ideally, during steady-state conditions, both response time and throughput remain relatively constant</p>
Que-8	To test the Performance testing on "Tops Technologies website" :- https://www.saucedemo.com/ ? 1. to Record all top level menu 2. to Record minimum 10 Vuser on this website 3. save all (Script,Design,Graph)
Ans-8	
Que-9	create a normal script of above website with correlate using hp default website.?
Ans-9	

Que-10	
Ans-10	