

## **Assignment - 4**

### **1. Which components have you used in Load Runner?**

➔ VUGen (Virtual User Generator) is an IDE (Integrated Development Environment) or a rich code editor. VUGen is used to replicate system under Load behavior. VUGen provides a recording feature which records communication to and from client and Server in form of a coded script – also called VUser script.

### **2. How can you set the number of VUsers in Load Runner?**

➔ You can set the number of VUser in the controller section while creating scenarios.  
➔ Many other advance option is ramp up and ramp down in Load runner controller section.

### **3. What is Correlation?**

➔ Correlated data is a data which is send to the client from the server, and later server sent back data to the client in correlation.

### **4. What is the process for developing a VUser Script.**

➔ VUser Script is developed in four stages;

- Record the VUser script
- Playback and improve the recorded VUser scripts
- Define and test the different run-time parameter
- Used the script in Load Runner Scenarios.

### **5. How Load Runner interact with the application.**

➔ Load runner simulating user activity by generating messages between application component and simulating interaction with the user interface such as key presses or mouse movement.

### **6. How many VUser are required in Load Testing?**

➔ Here is the basic calculation,  
$$(\text{Concurrent users}) * (\text{Requests per user per minute}) = \text{total request per minute.}$$

For example, if you run a load test with 10,000 virtual users, each making a request every 20 seconds (3 request per minute), then you are making 30,000 request per minute, which is equal to too request per seconds.

### **7. What is the relationship between Response Time and Throughput?**

The throughput shows the amount of data in bytes that the virtual users received from the server In a second . when it is compared with transaction response time get increased. The peak throughput and highest response time would occur approximately at the same time.

### **8. Difference between hits/second and request/second?**

**Hit / Second** - Hits per second represents the number of requests sent to the server in one second

**Request / Second** – Hits per second is the total load set by the concurrent virtual users on the server, no matter if they are executed successfully or not on the server side.

### **9. To test the performance testing on tops technologies websites <https://www.Top-int.com>**

- a. To record all top level menu
- b. To record minimum 10 Vuser on this website
- c. Save all (Script, Design, Graph)

### **10. Create a normal script of above website with correlate using hp default website**