

Phase3-Practice Project: Assisted Practice

JMeter:

Write a program to demonstrate how a JMeter script is recorded.

Write a program to demonstrate how load (threads) is added in JMeter.

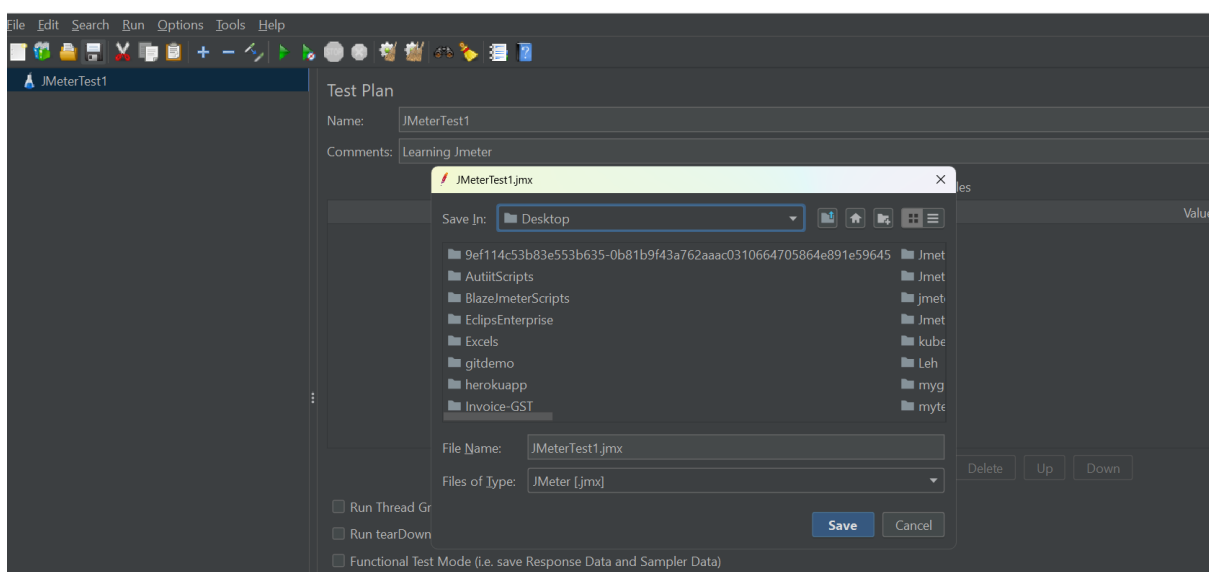
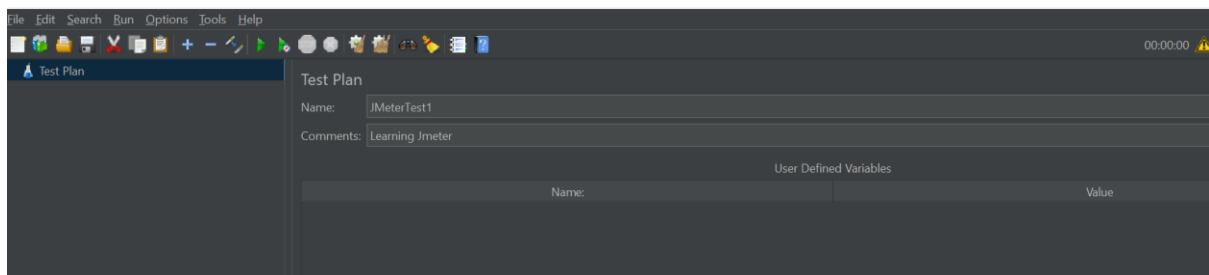
Write a program to demonstrate how load is increased in JMeter.

You are given a project to demonstrate load and scalability with JMeter.

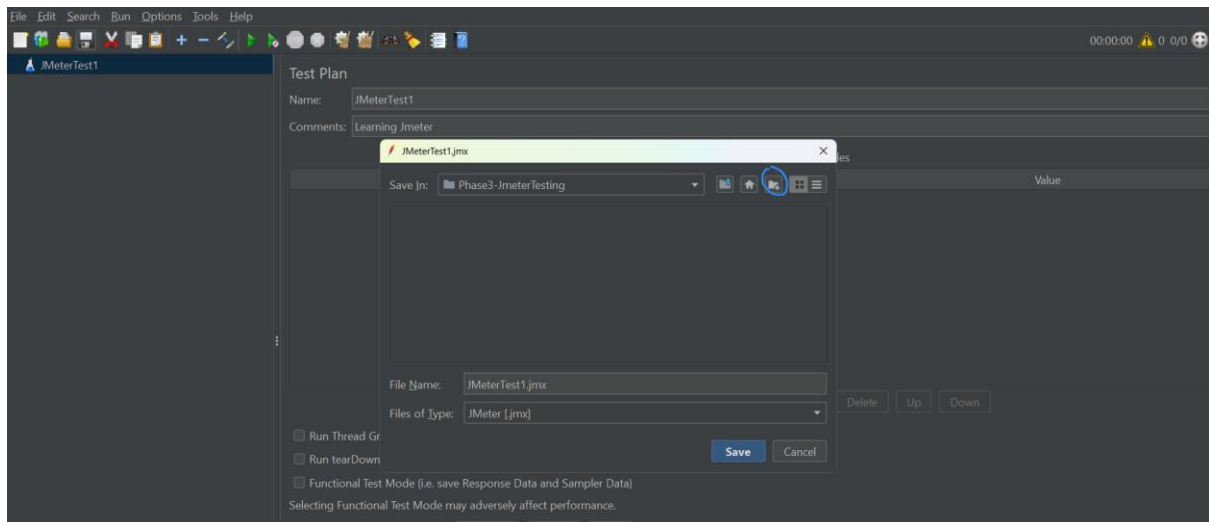
JMeter script recording , Adding load and Increasing load:

Create a Test Plan and save it

Click on the Save button

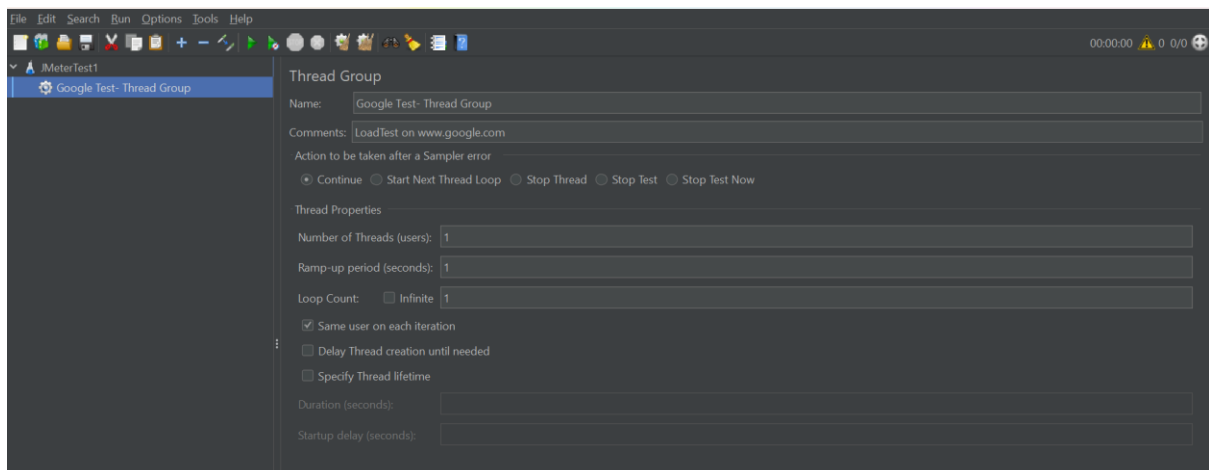
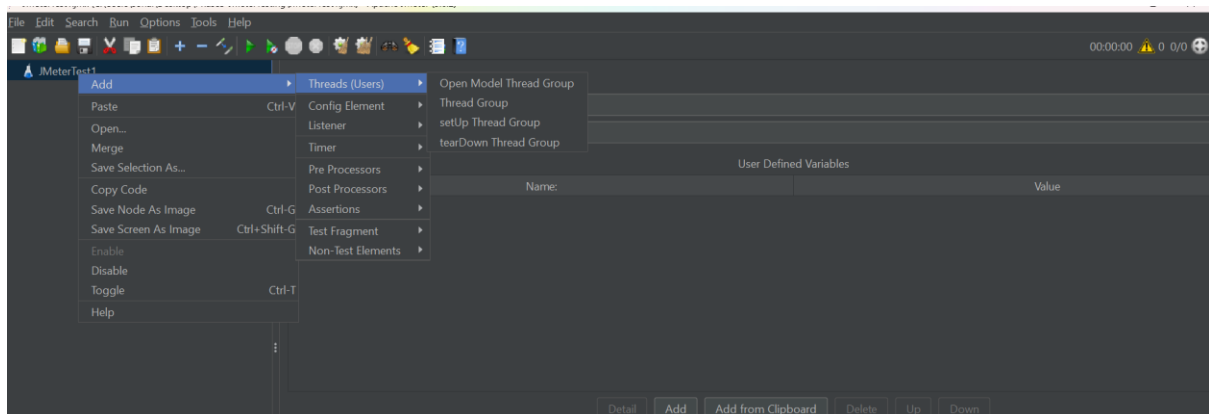


Click on save button. File will be saved.



Add a thread group to a Test plan

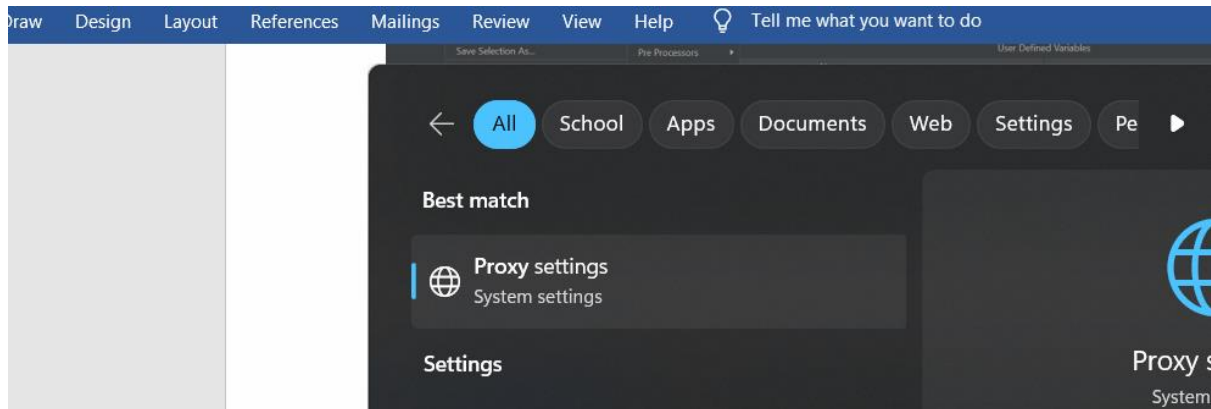
Right click of Test Plan -> Go to Add-> go to Thread ->Click on Thread Group



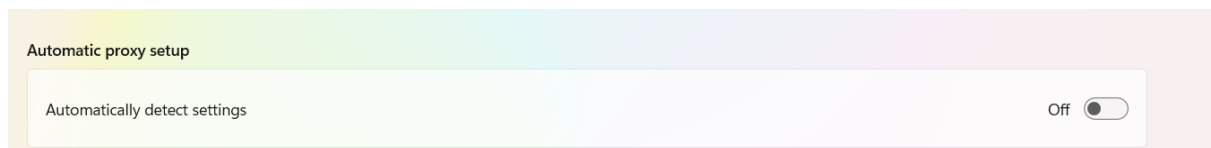
Recording script using Jmeter

To do this, first we have to set up proxy server on our laptop

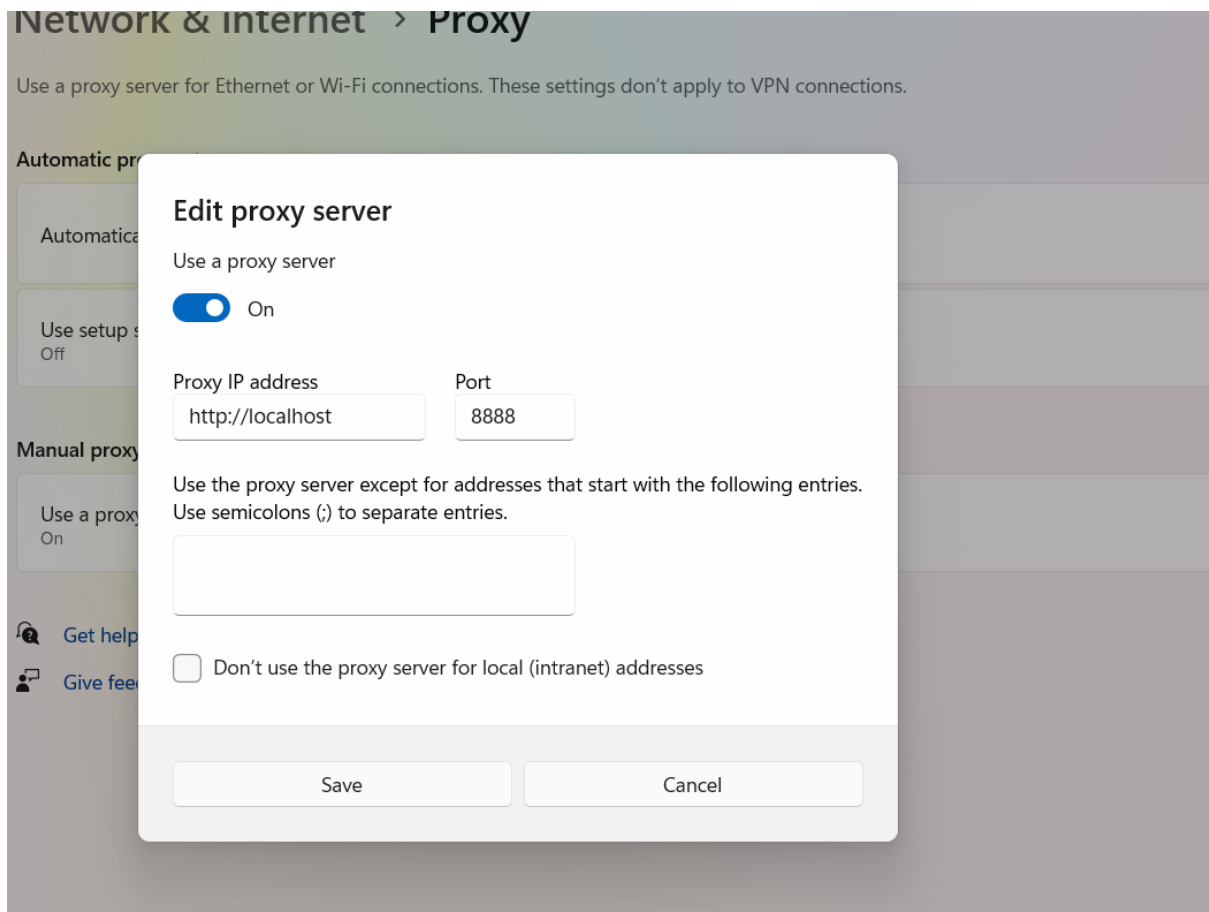
Go to laptop search box → go to proxy settings



Set off for automatic detect settings

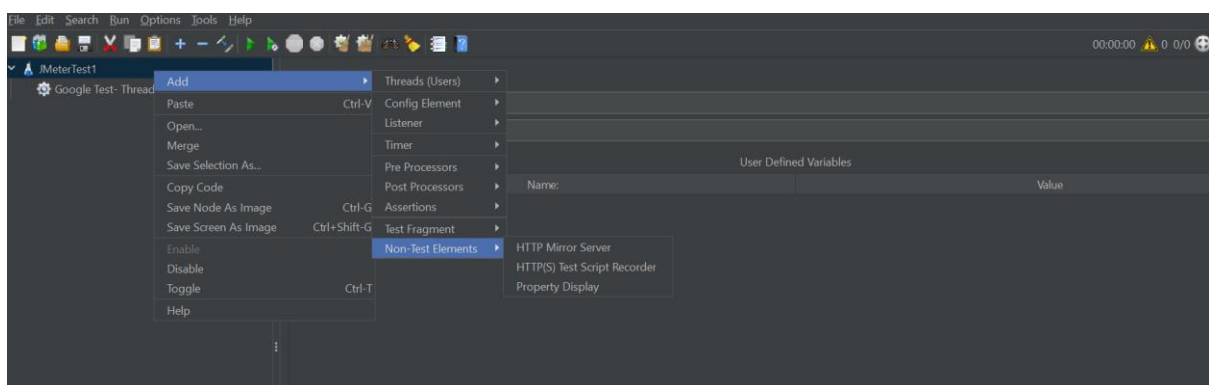


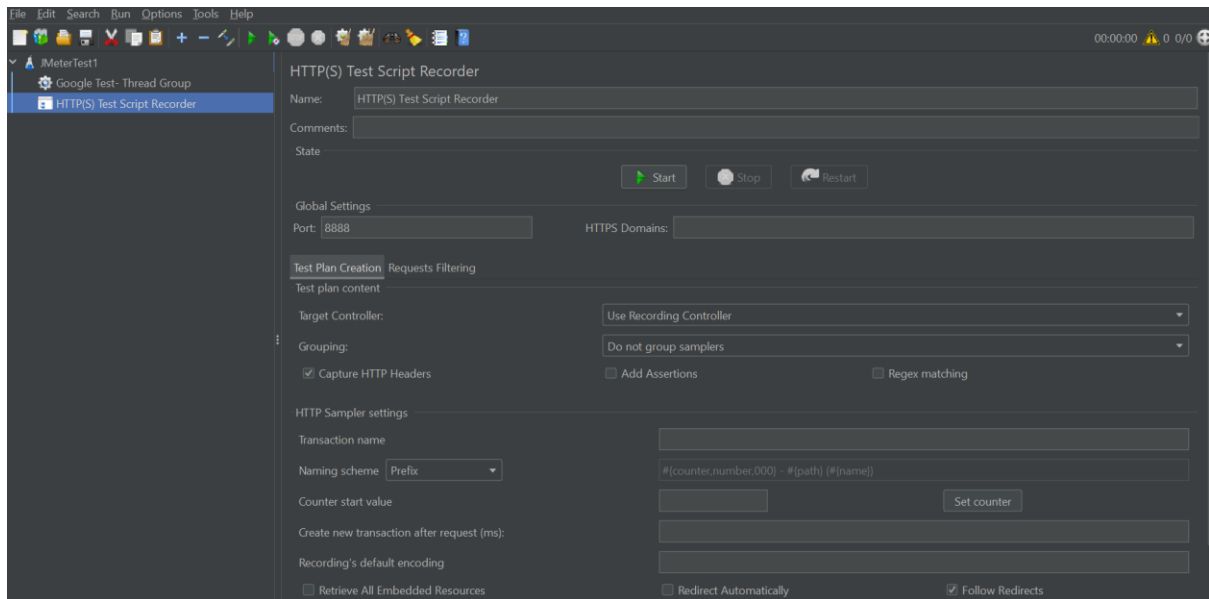
We will go to manual proxy setup -> click on set up → click on use a proxy server -> click on Save button.



Now go to JMeter and add the recording elements:

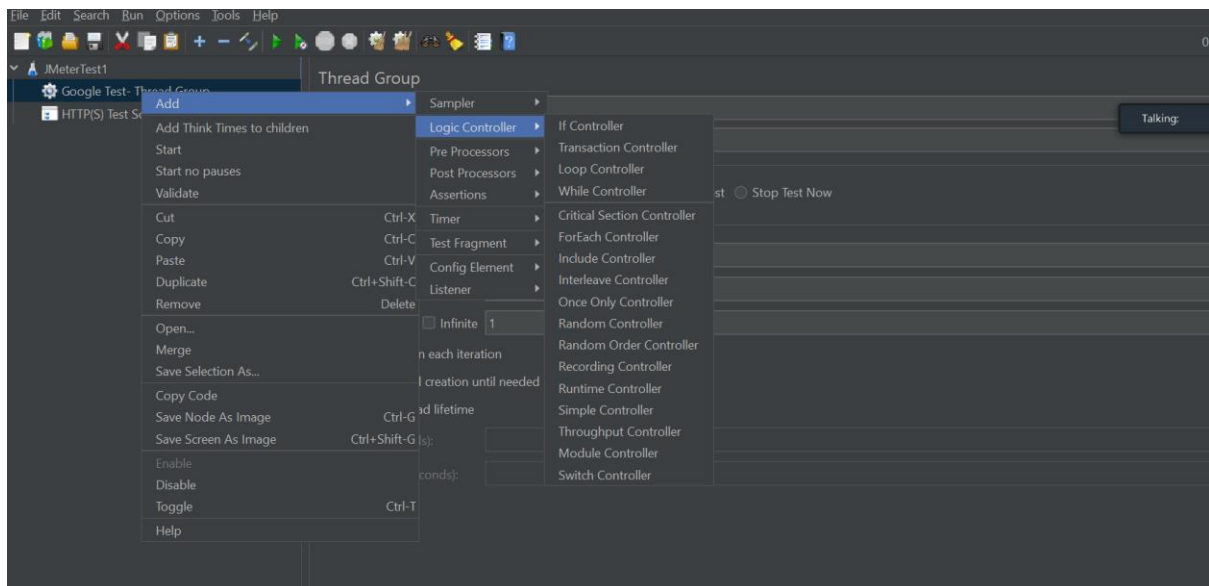
Right click on Test Plan → Add → Non test elements → Https Test Script Recorder



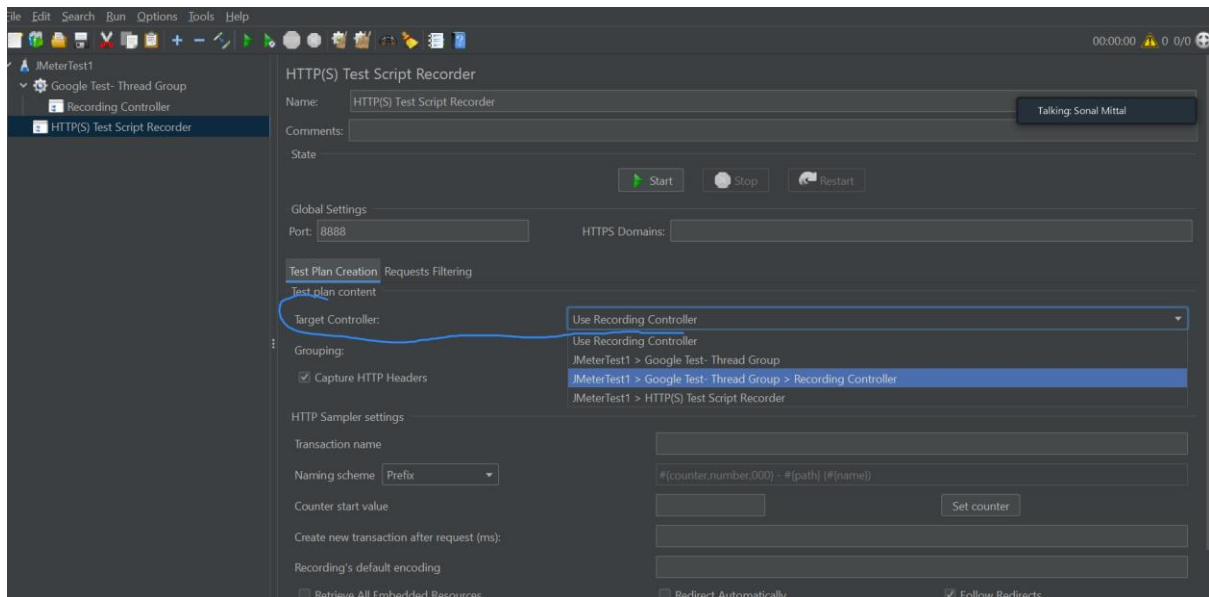


Add the recording controller to the thread group

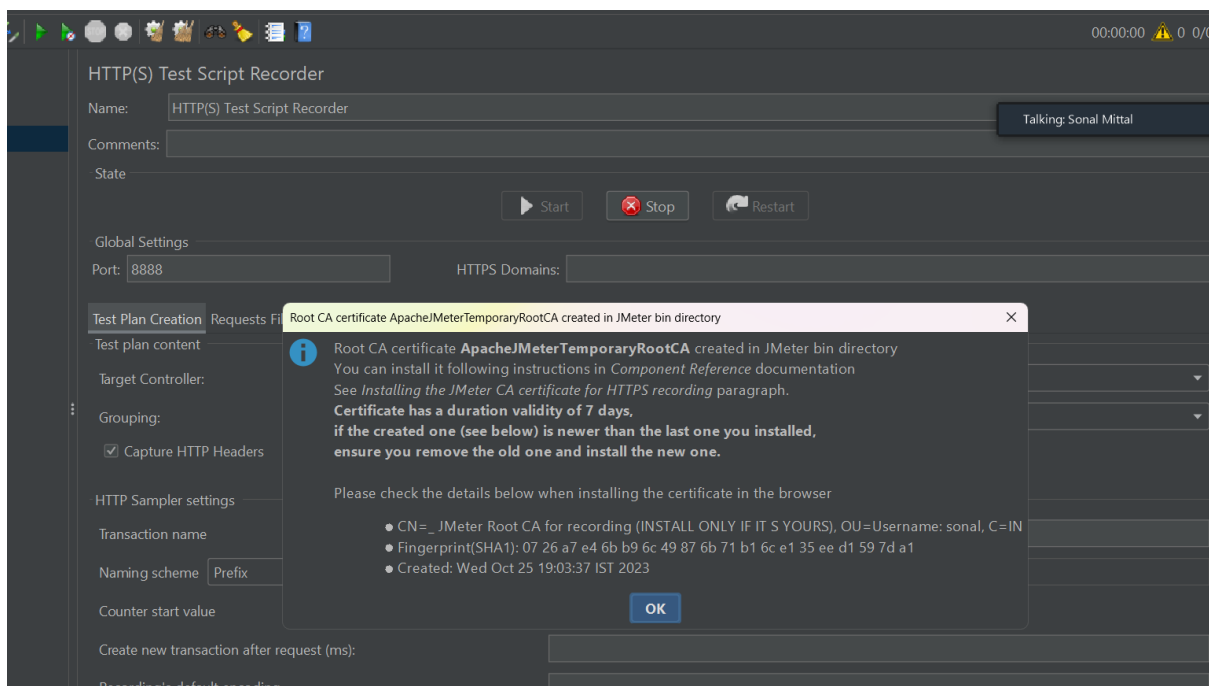
Right click on thread group → add → logic controllers → Recording controller

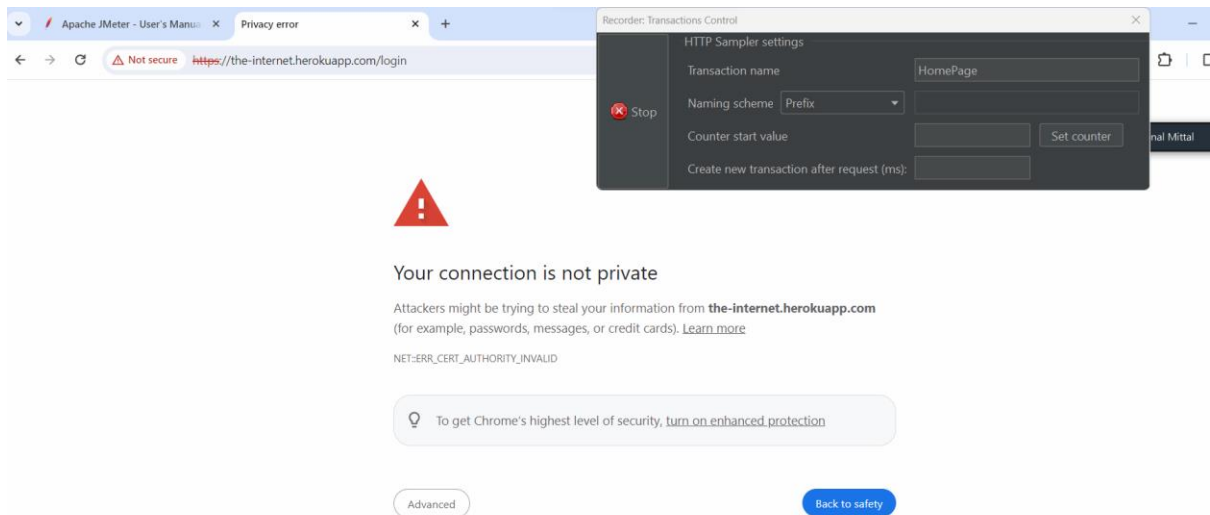


Select the recording controller in HTTP Tets Script recorder.

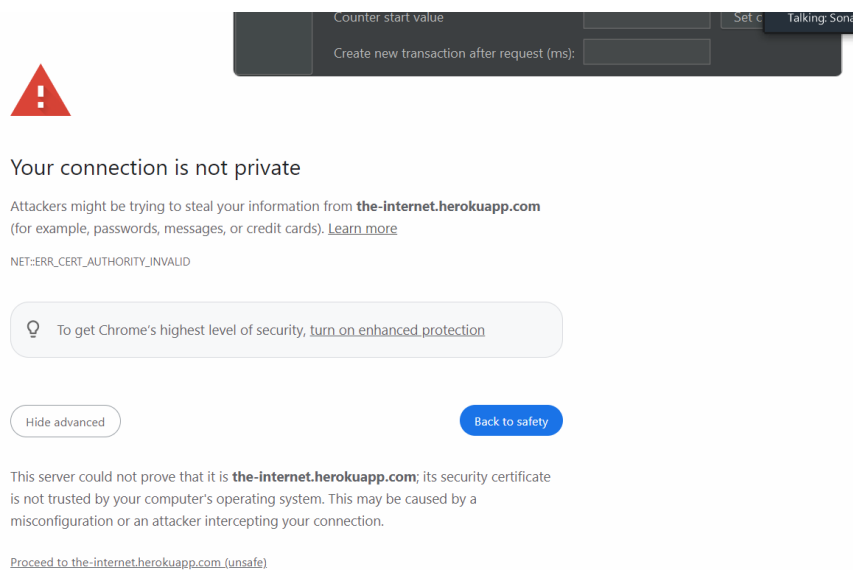


Click on Start button → click ok on the certificate adding request

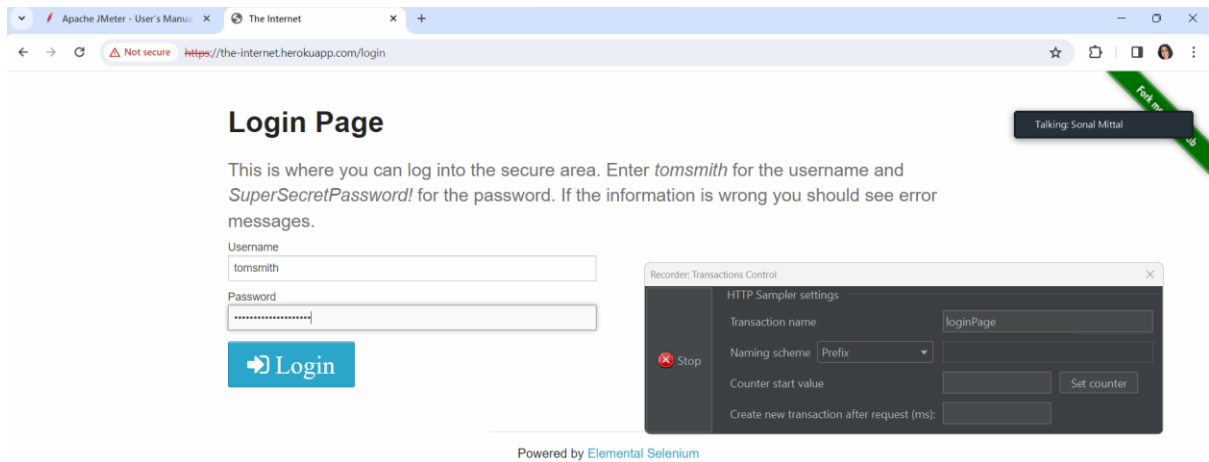




Click on advance→ click on proceed to internetheroku app

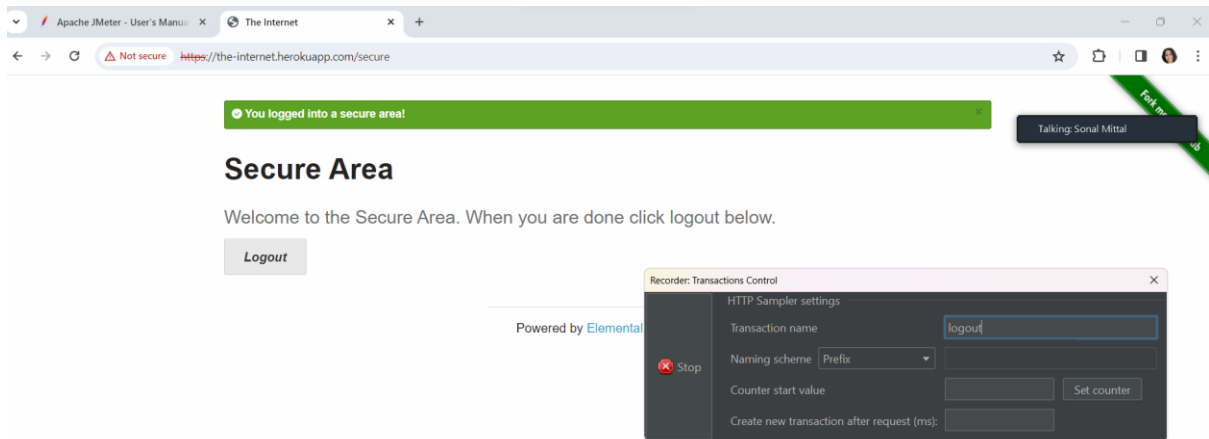


Record transaction to login to the application



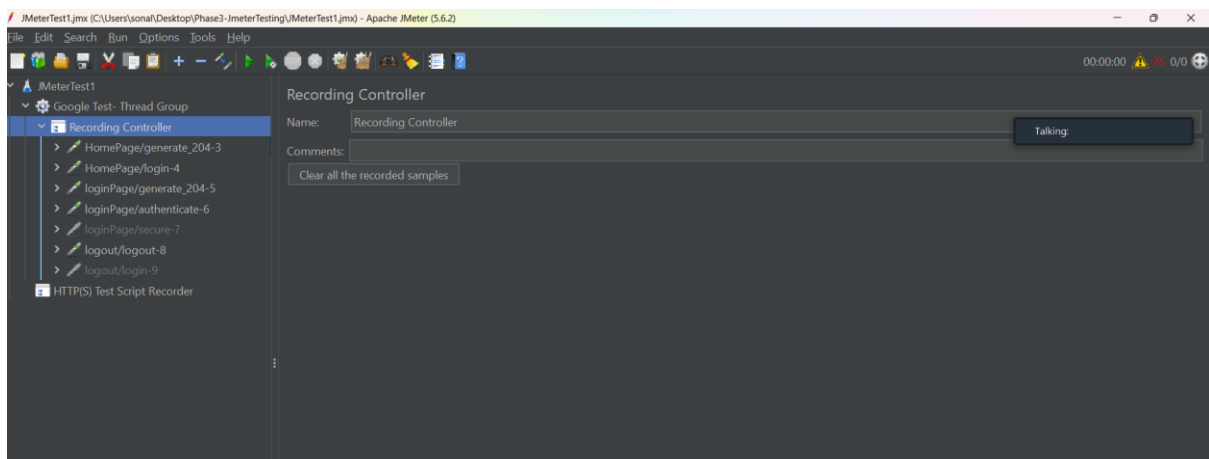
After click on login button, create anew transaction as logout

Click on logout button

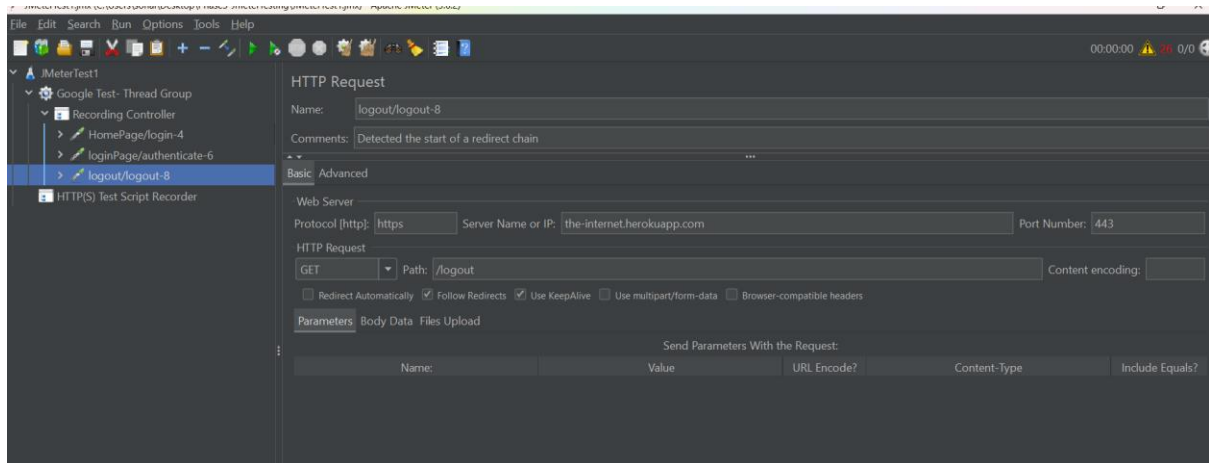


Click on stop button on transaction control.

Now under recording controller, you will see the recored scripts

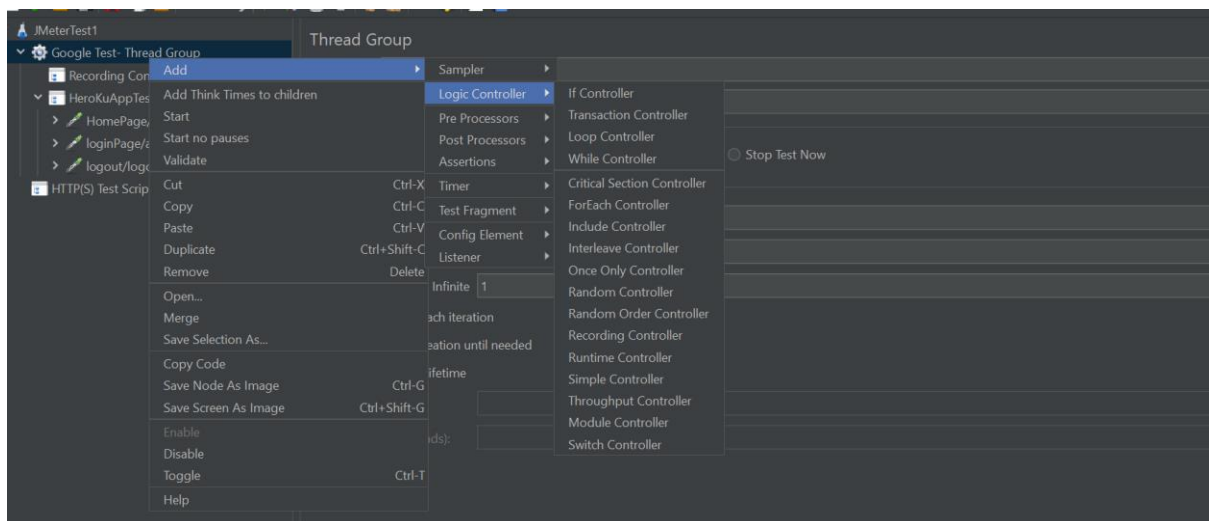


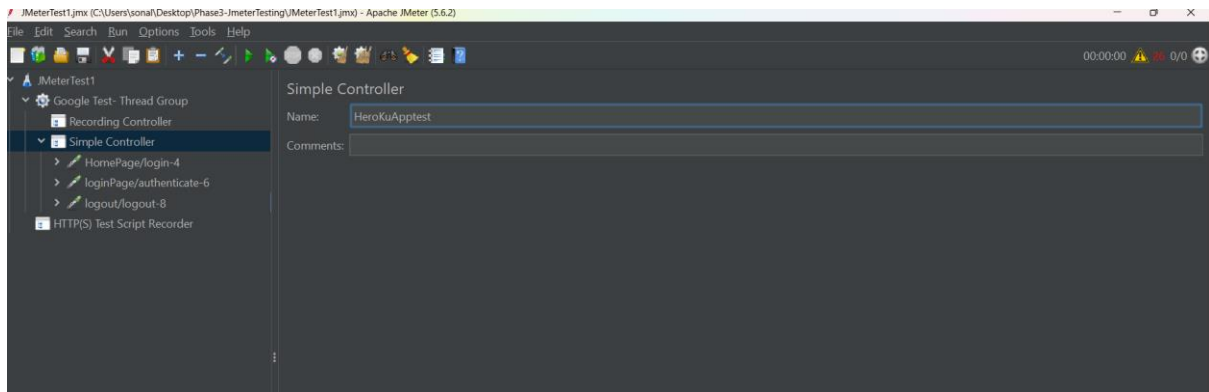
Right click and remove the request which have server name or ip and gstatic.com



Now move the recorded transactions in Simple Controller

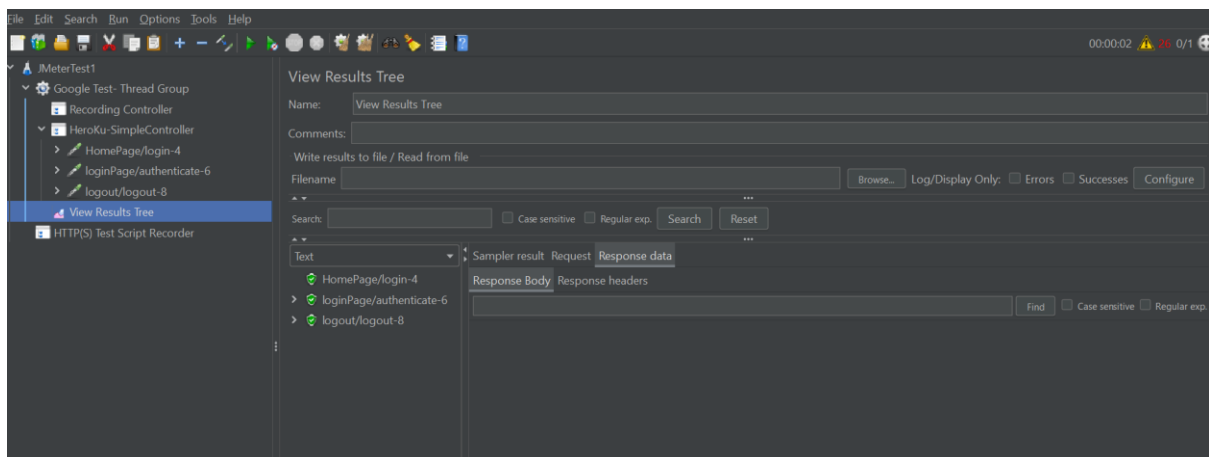
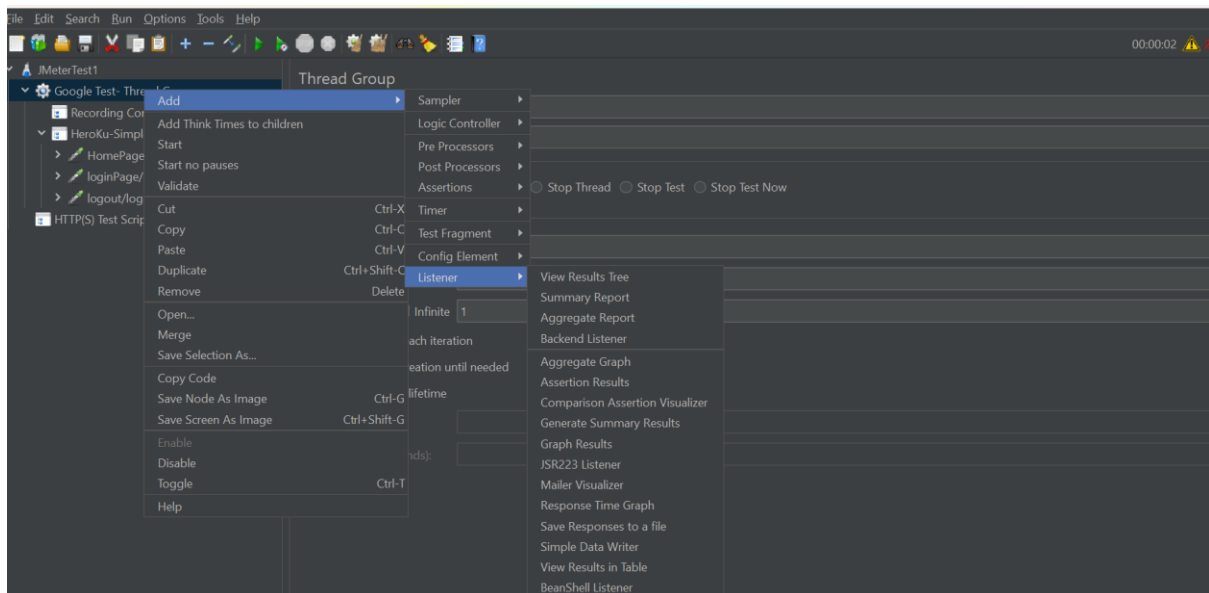
Simple controller is just like a folder that holds your test scripts





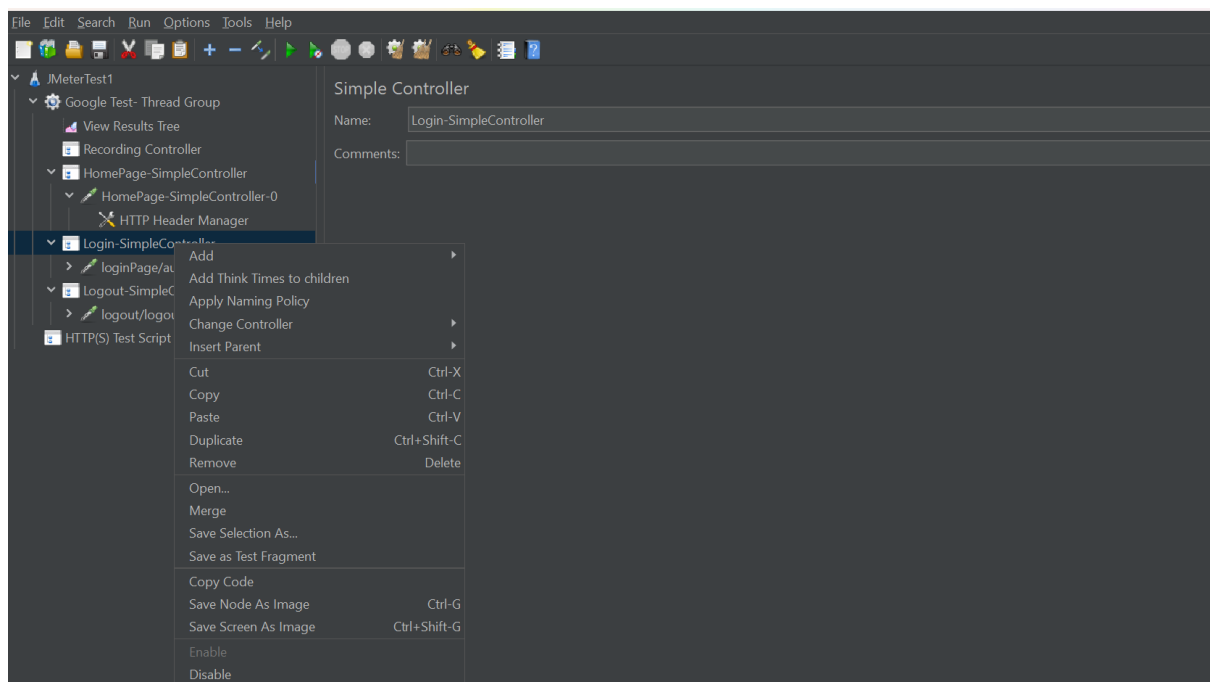
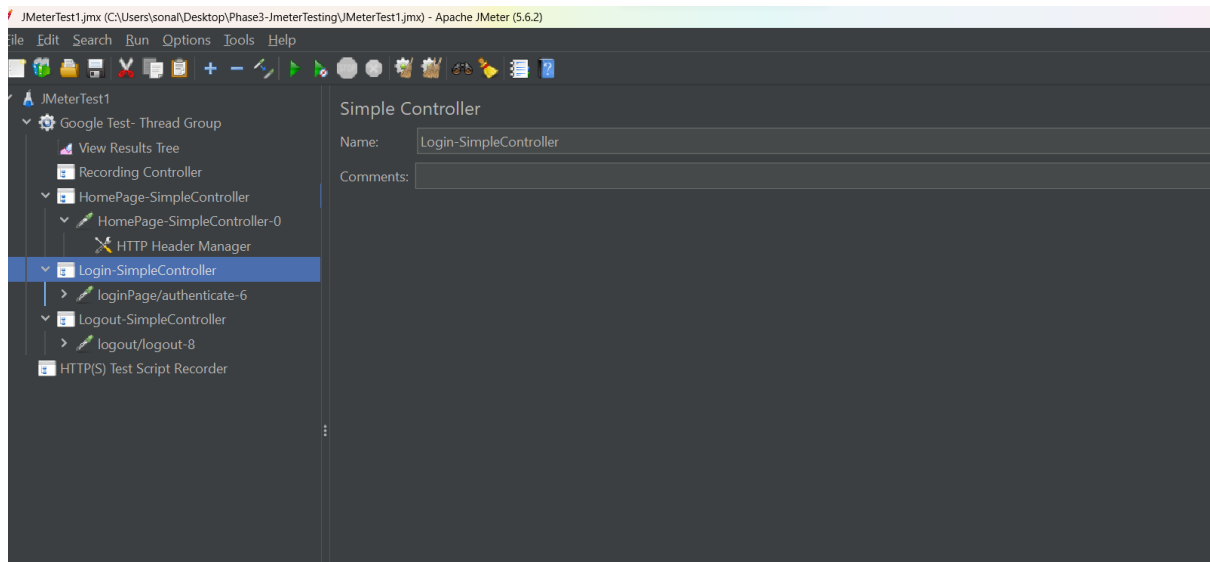
Add a Listeners to the thread group

Thread Group→Add -> Listeners→ View results tree



Loop and runtime Controller

Create 3 simple controllers and place you samples in each of the controller



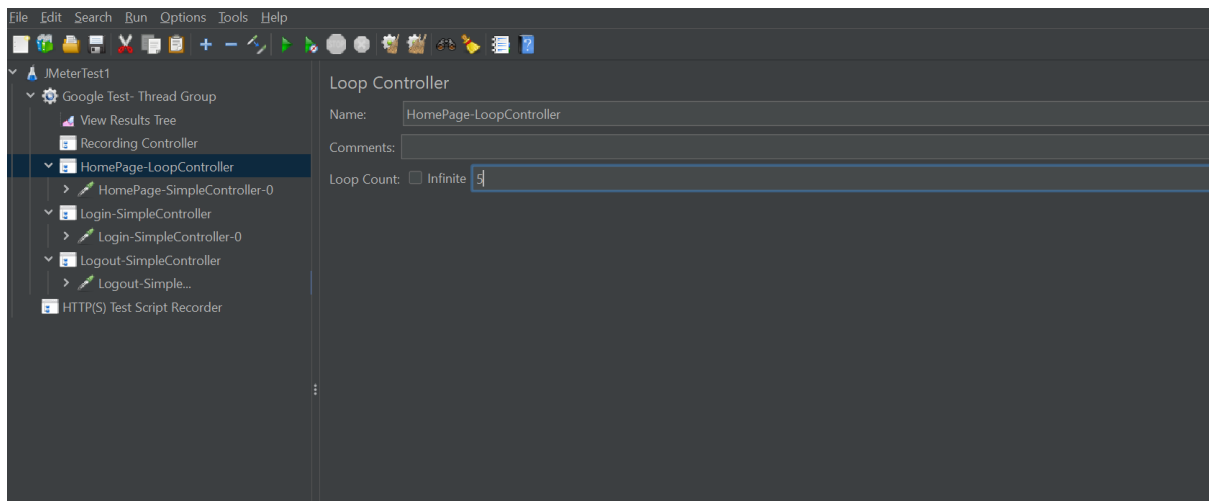
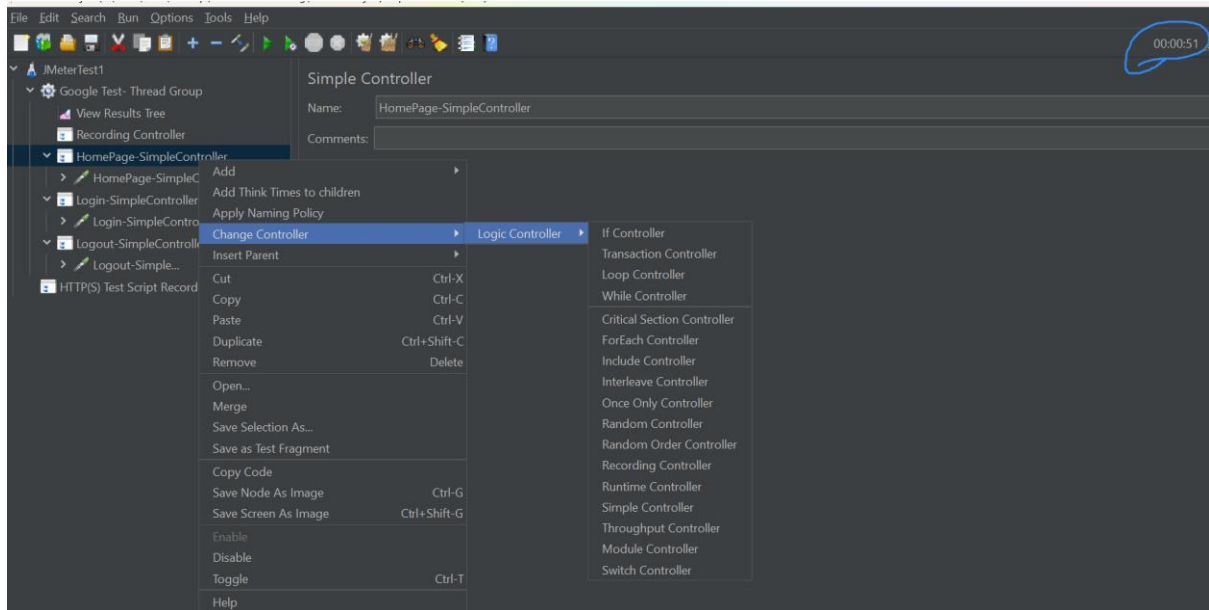
Now we have the thread group with Loop count as 1

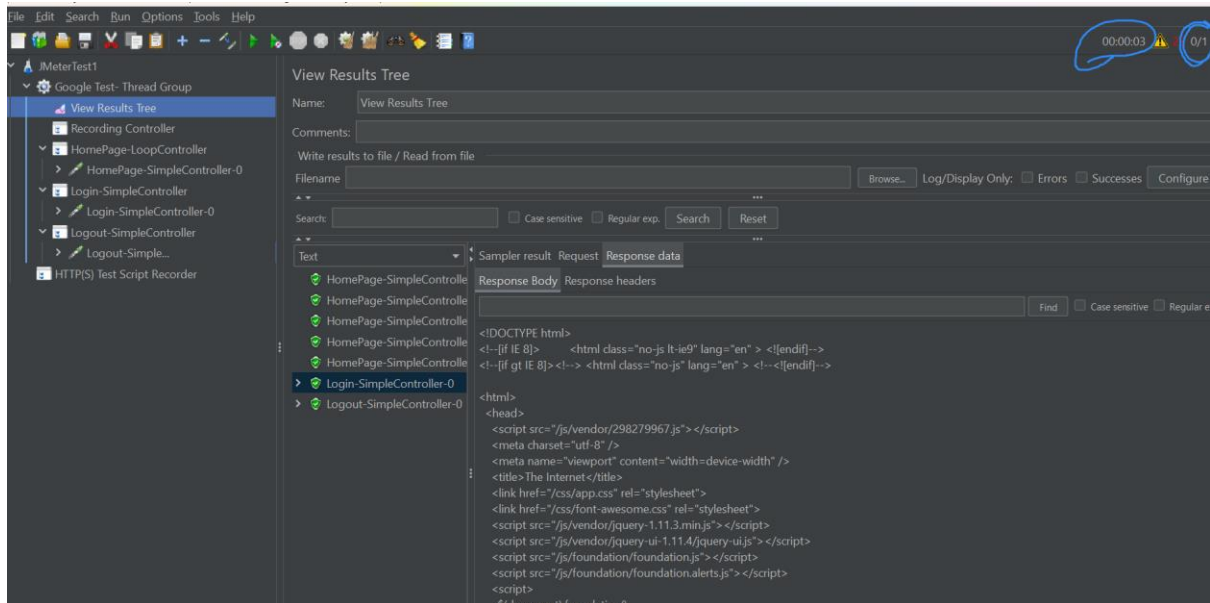
So all transaction by default will run only once with 1 user

But lets say in the entire testing I want to run HomePage transaction 3 times and rest all transaction should run once → then we can use loop Controller

Loop controller → run a transaction multiple times

We can change simple controller to Loop controller and loop count for that transaction



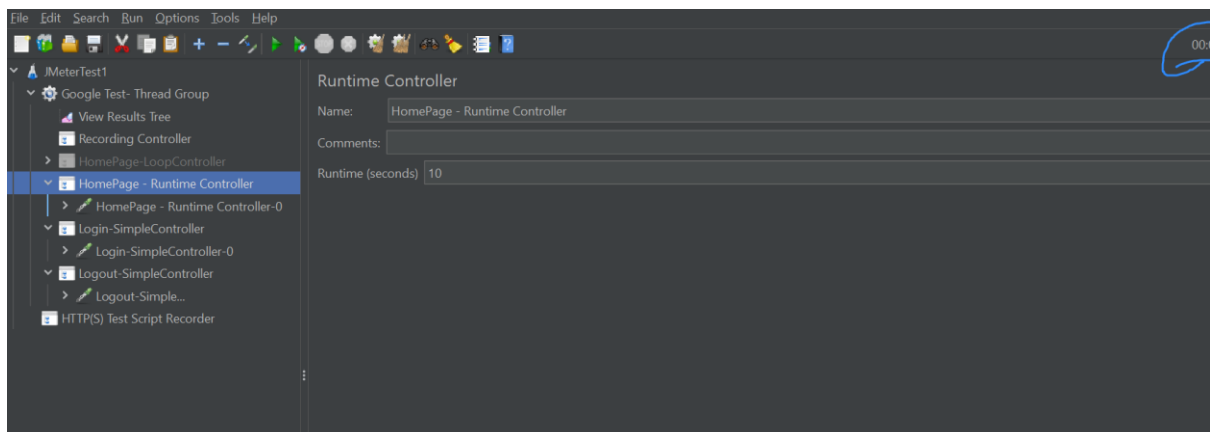


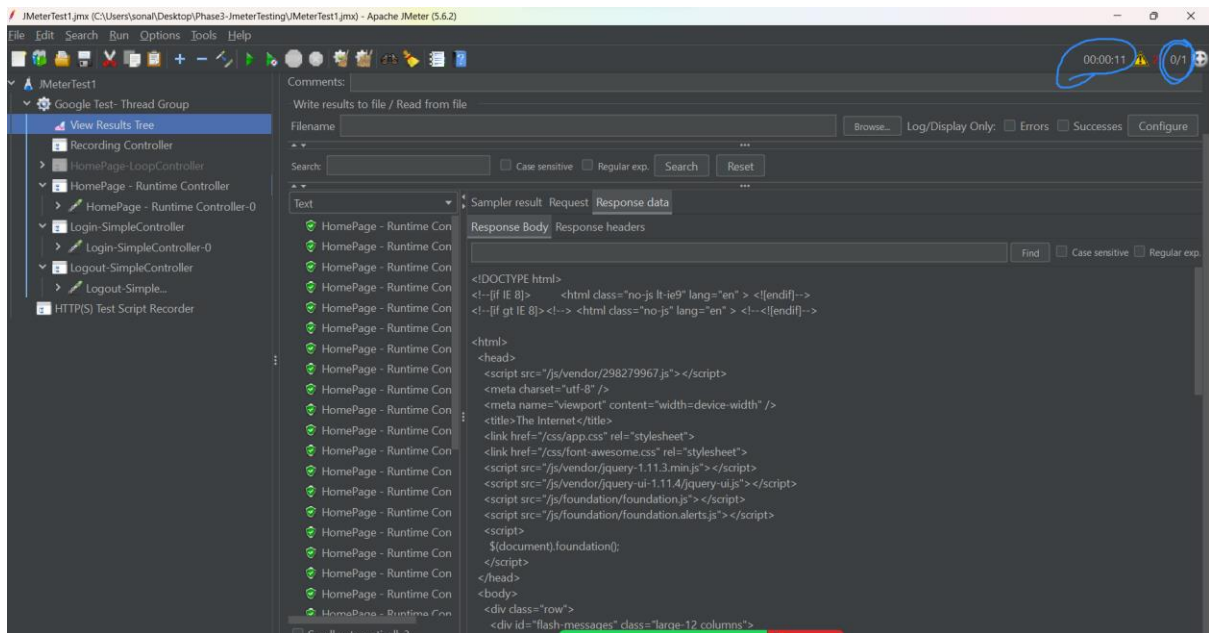
Now add the runtime controller to thread group

Disbale the loop controller

Copy the homepage sampler in Runtime controller

In runtime controller → give runtime = 10 sec → this sample is going to execute continuously for 10 seconds





How to add load in JMeter and Increasing load in JMeter:

Create a threads Group

On threads group , in threads properties , Number of threads(users) → here we can add load and we can also increase the load.

