

Phase3-Practice Project: Assisted Practice

JMeter:

Samplers:

Write a program to demonstrate how a SMTP sampler script is run in JMeter.

Write a program to demonstrate how a JDBC sampler script is run in JMeter.

Write a program to demonstrate how a JUnit sampler script is run in JMeter.

Write a program to demonstrate how Selenium WebDriver is integrated using JMeter script.

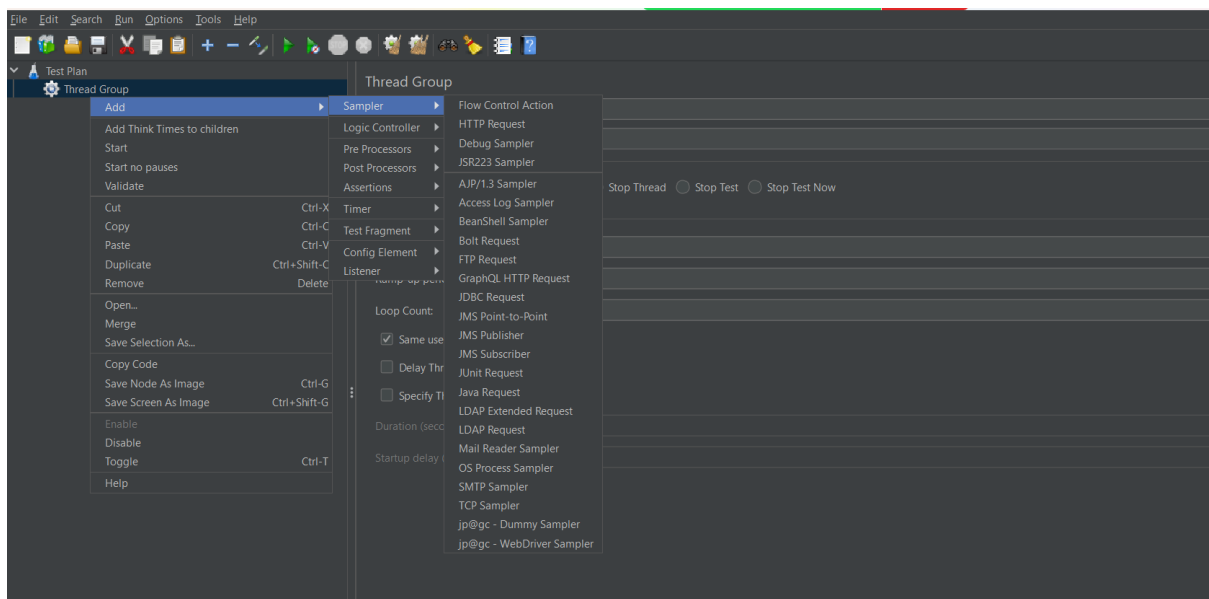
Write a program to demonstrate a WebDriver set sampler script in JMeter.

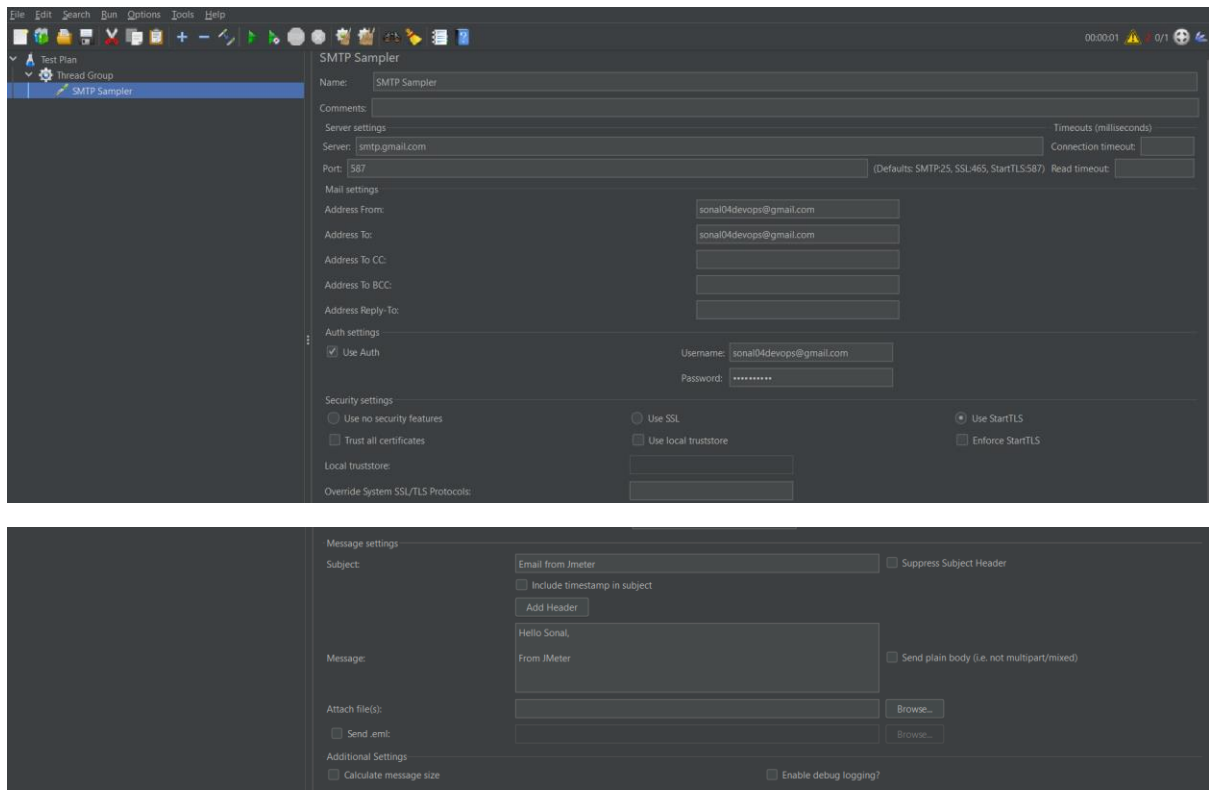
Write a program to demonstrate a WebDriver set sampler script in JMeter.

1. SMTP Sampler

SMTP sampler will allow JMeter to send a request to a SMTP server, the server will then send an email to the destination and will also send response as success to JMeter.

Threadgroup → Add → Sampler → SMTP sampler





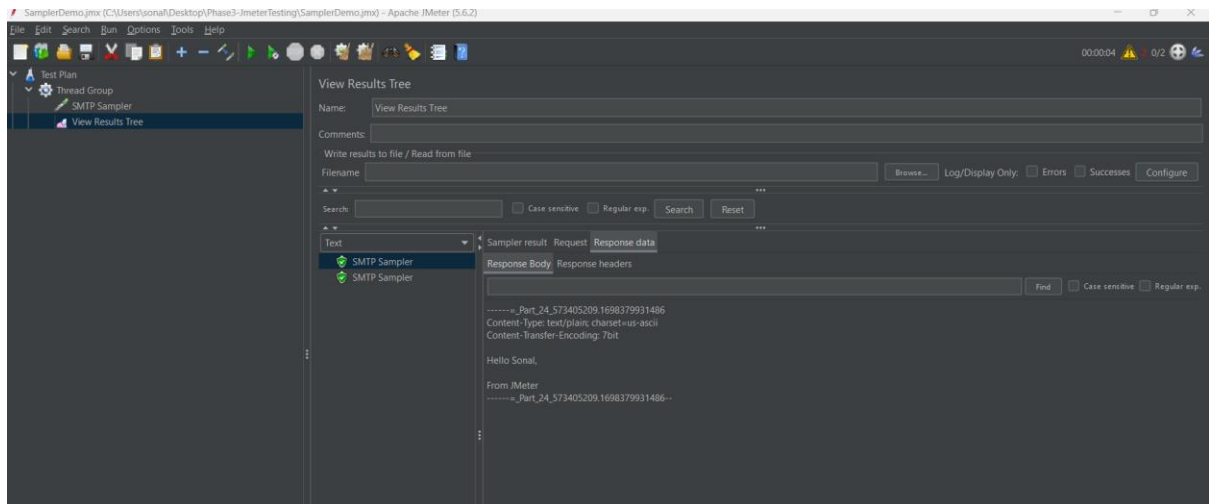
Execute the Sampler. The request will fail as username and password is incorrect.

That is alright. It is because gmail SMTP server is not allowing third party tools to use it and send emails.

You can submit assignment with failed requests.

However you can activate 2 step verification on your gmail account → and generate app password on Gmail account

Then give that app password in the SMTP sampler, then your request will be successful.



2.JDBC Sampler:

Download the JDBC connector jar file

Open the browser of the lab and open this URL

<https://dev.mysql.com/downloads/connector/j/>

In the drop down select platform independent

Select the second option : Platform Independent (Architecture Independent), ZIP

Click on download button

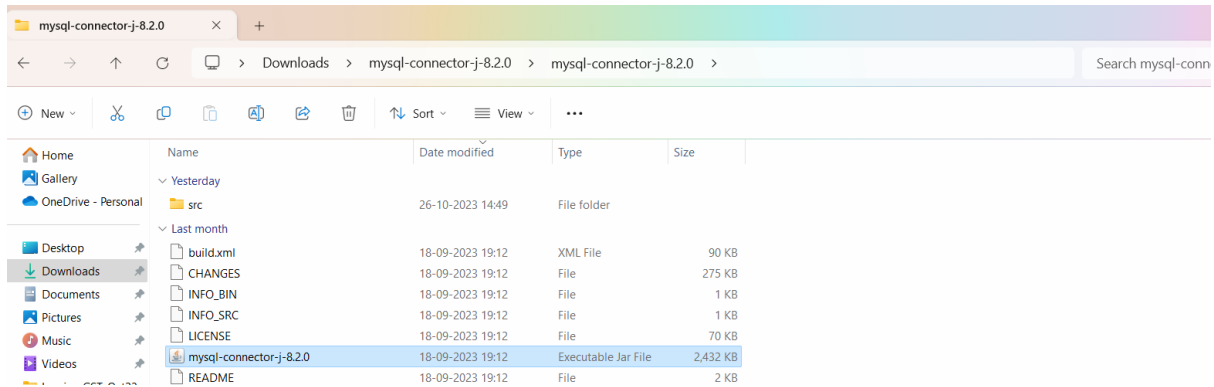
on next page click on => No thanks, just start my download.

Zip file will be downloaded.

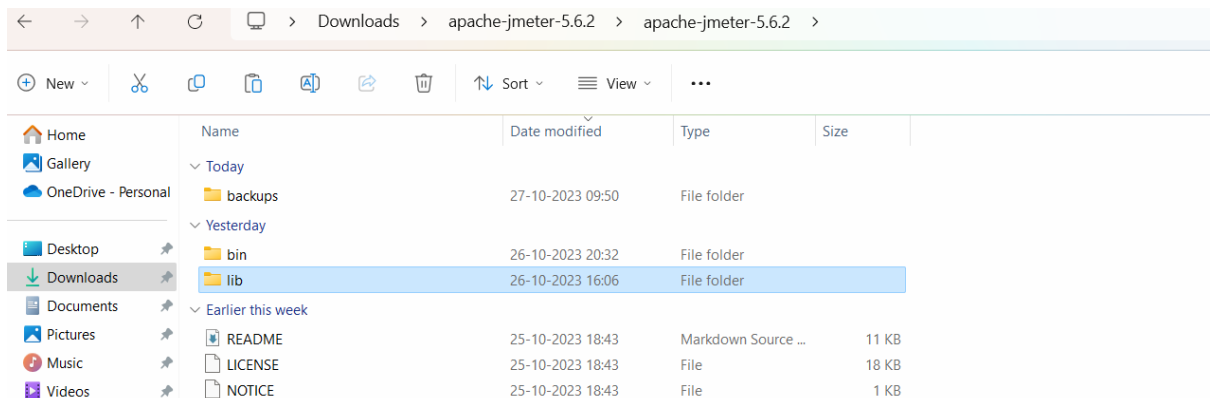
Now go to downloads folder of lab

and right click on zip file and click on extract here

In the folder there will be a JDBC connector.jar file



This Jar file has to be copied and pasted in your Jmeter folder → lib folder

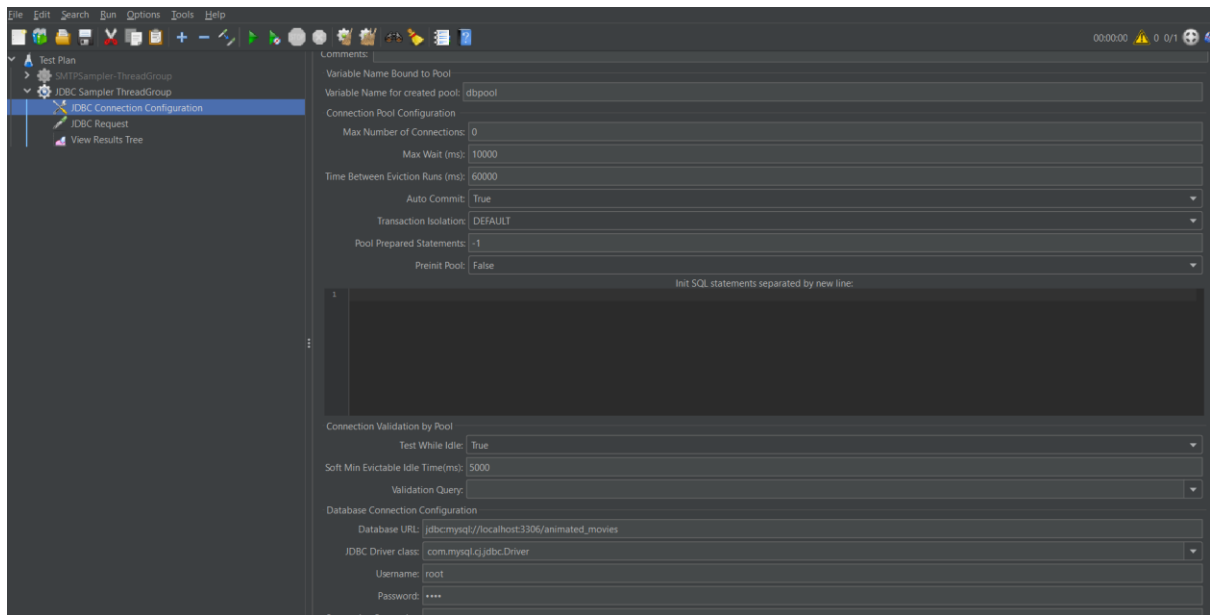


Name	Date modified	Type	Size
httpclient-4.5.14	25-10-2023 18:44	Executable Jar File	768 KB
httpmime-4.5.14	25-10-2023 18:44	Executable Jar File	41 KB
rsyntaxtextarea-3.3.3	25-10-2023 18:44	Executable Jar File	1,267 KB
commons-dbcp2-2.9.0	25-10-2023 18:44	Executable Jar File	207 KB
batik-css-1.16	25-10-2023 18:44	Executable Jar File	323 KB
batik-dom-1.16	25-10-2023 18:44	Executable Jar File	180 KB
commons-jexl-2.1.1	25-10-2023 18:44	Executable Jar File	262 KB
commons-jexl3-3.2.1	25-10-2023 18:44	Executable Jar File	452 KB
xmlgraphics-commons-2.8	25-10-2023 18:44	Executable Jar File	661 KB
batik-awt-util-1.16	25-10-2023 18:44	Executable Jar File	415 KB
batik-gvt-1.16	25-10-2023 18:44	Executable Jar File	188 KB
batik-parser-1.16	25-10-2023 18:44	Executable Jar File	76 KB
batik-svg-dom-1.16	25-10-2023 18:44	Executable Jar File	228 KB
batik-svggen-1.16	25-10-2023 18:44	Executable Jar File	223 KB
batik-anim-1.16	25-10-2023 18:44	Executable Jar File	475 KB
batik-bridge-1.16	25-10-2023 18:44	Executable Jar File	689 KB
batik-script-1.16	25-10-2023 18:44	Executable Jar File	25 KB
batik-transcoder-1.16	25-10-2023 18:44	Executable Jar File	127 KB
batik-codec-1.16	25-10-2023 18:44	Executable Jar File	110 KB
bsf-2.4.0	25-10-2023 18:44	Executable Jar File	111 KB
bsh-2.0b6	25-10-2023 18:44	Executable Jar File	380 KB
httpasyncclient-4.1.5	25-10-2023 18:44	Executable Jar File	178 KB
lets-plot-batik-3.2.0	25-10-2023 18:44	Executable Jar File	195 KB
mail-1.5.0-b01	25-10-2023 18:44	Executable Jar File	507 KB
kotlinox-coroutines-core-jvm-1.7.1	25-10-2023 18:44	Executable Jar File	1,513 KB
kotlinox-coroutines-swing-1.7.1	25-10-2023 18:44	Executable Jar File	10 KB
▼ Last month			
mysql-connector-j-8.2.0	18-09-2023 19:12	Executable Jar File	2,432 KB

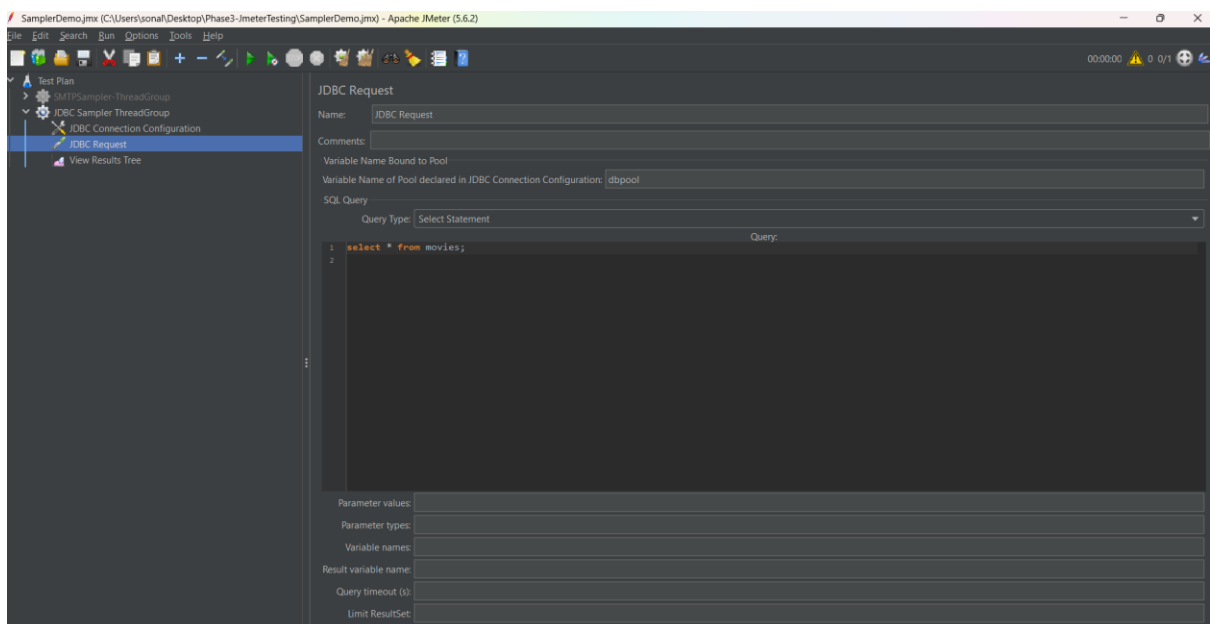
After copying the jar file in LIB folder → restart your apache Jmeter (close it and start it again).

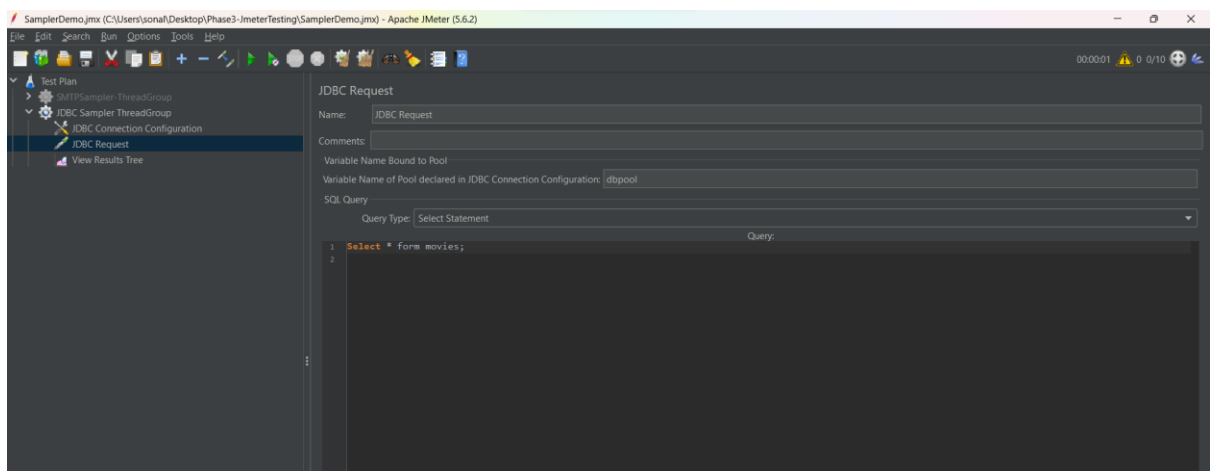
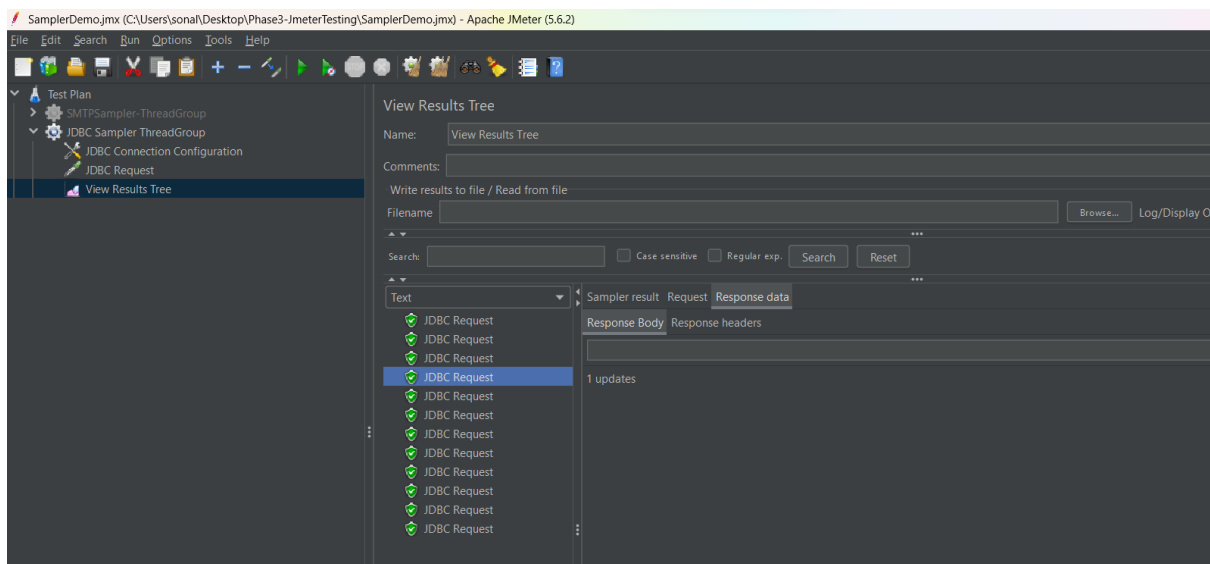
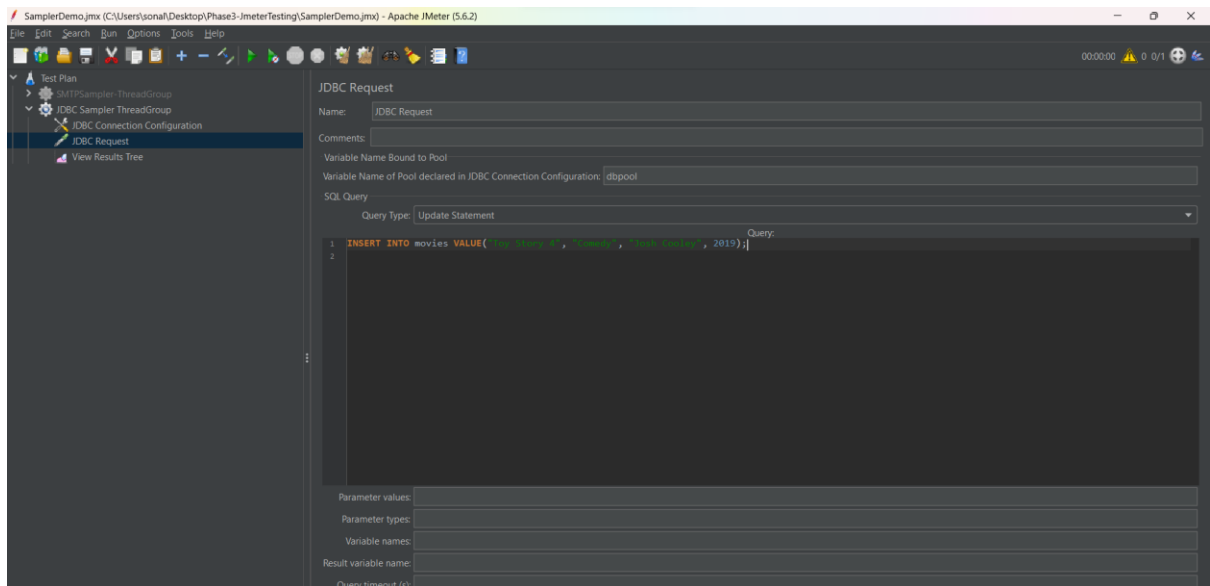
In JMeter → create a Thread group → Add → Config Element → JDBC connection Configuration

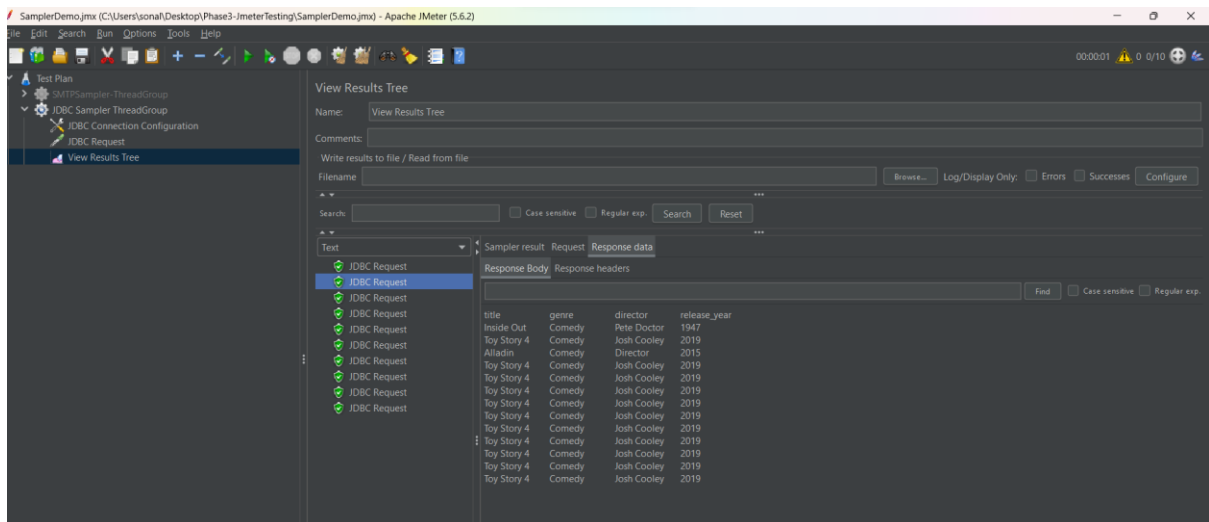
Add the variable pool name and add DB connection details.



Thread group → Add the JDBC request → Add the variable name as given in JDBC configuration → Add the query to be executed.



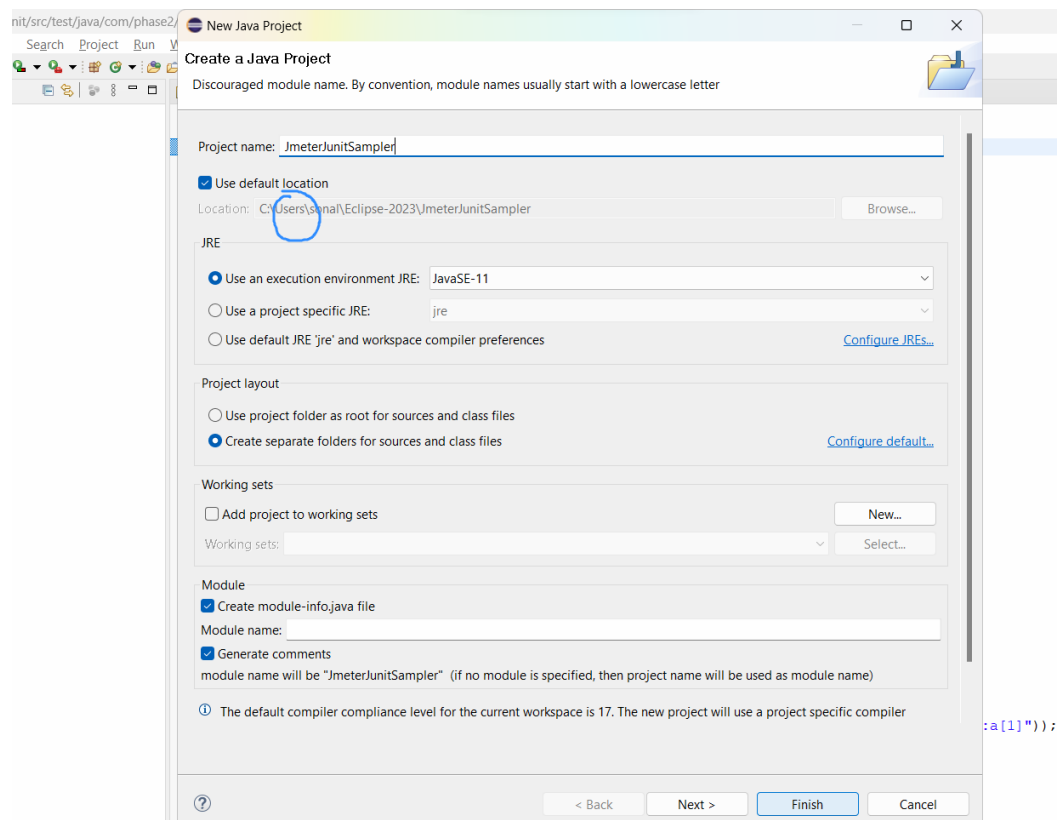


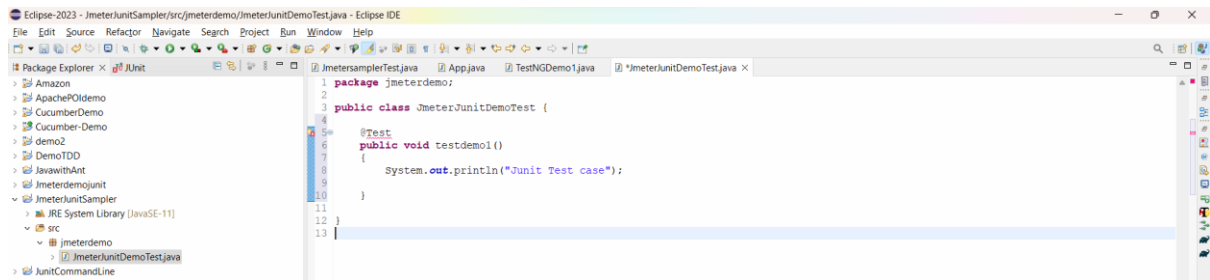


3. JUNIT Sampler

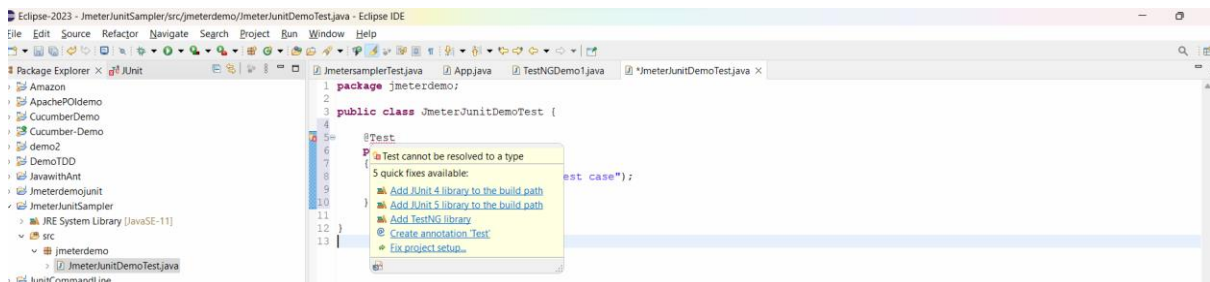
Create a Java package in eclipse → create a Junit class and add Junit test annotation → create a junit method.

Add Junit 4 library in the java project.





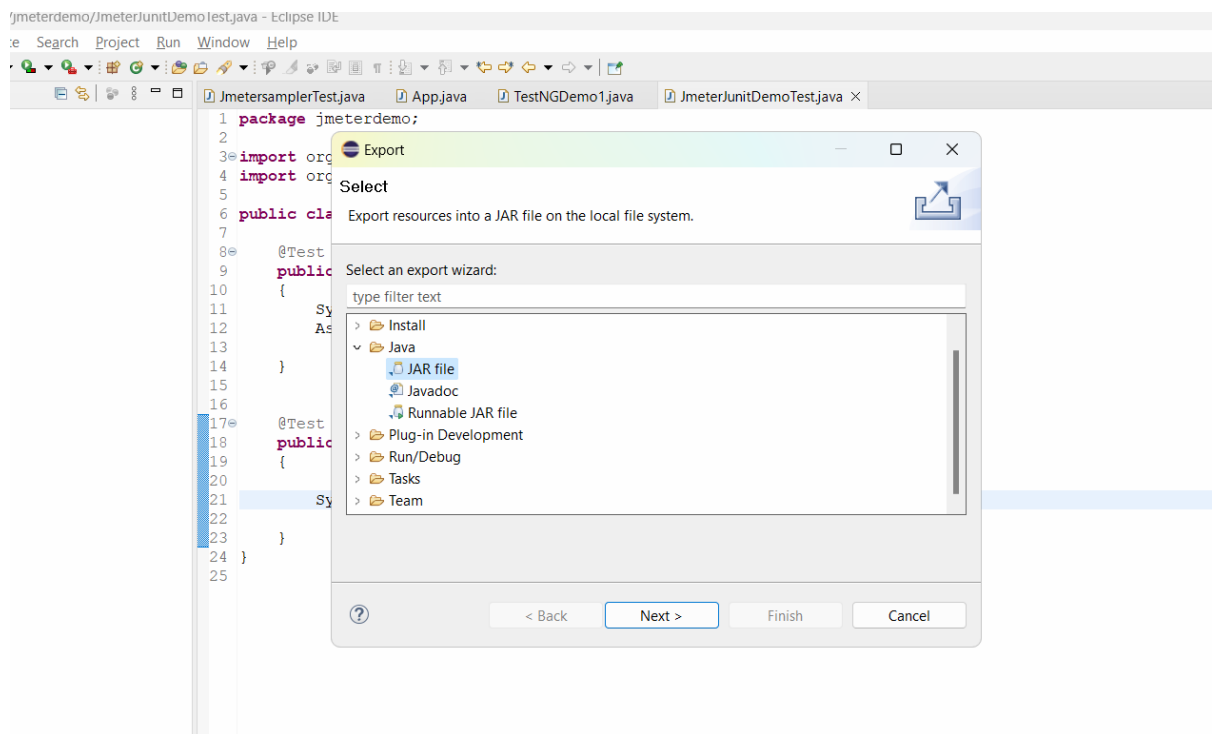
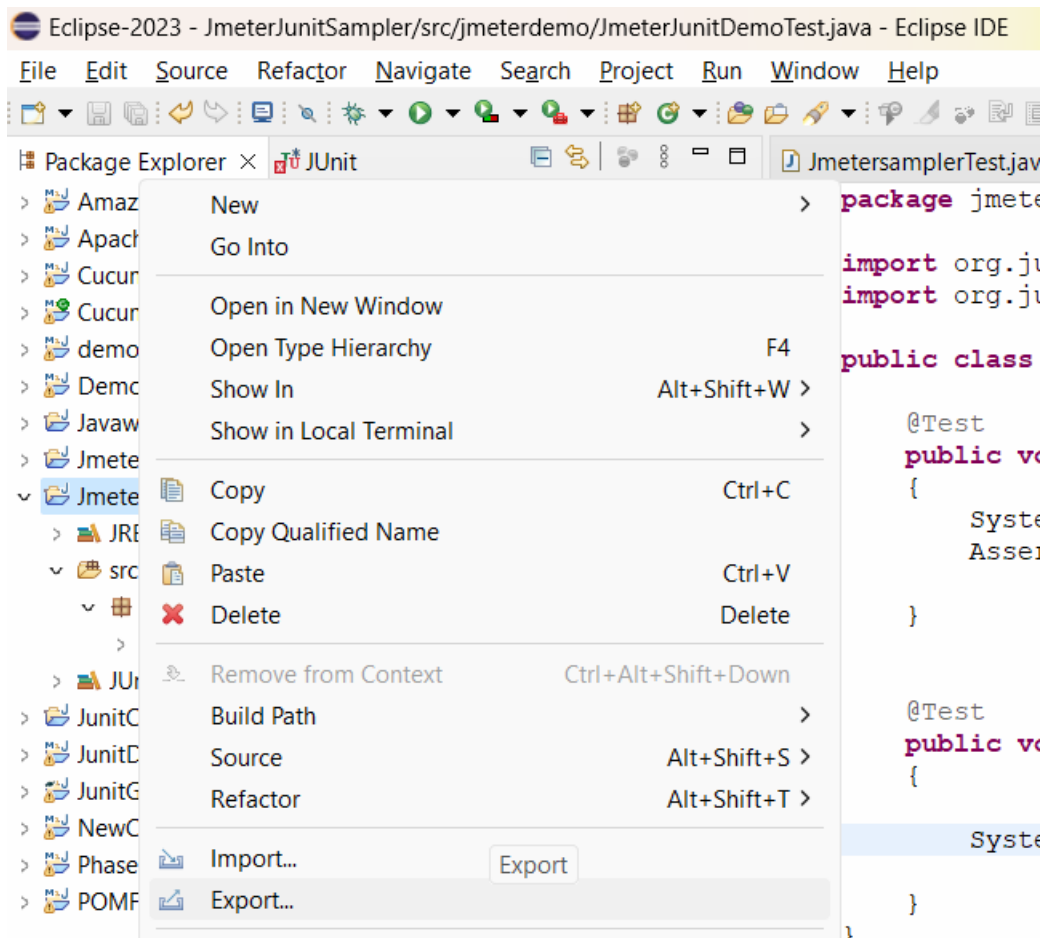
Select Junit 4 library



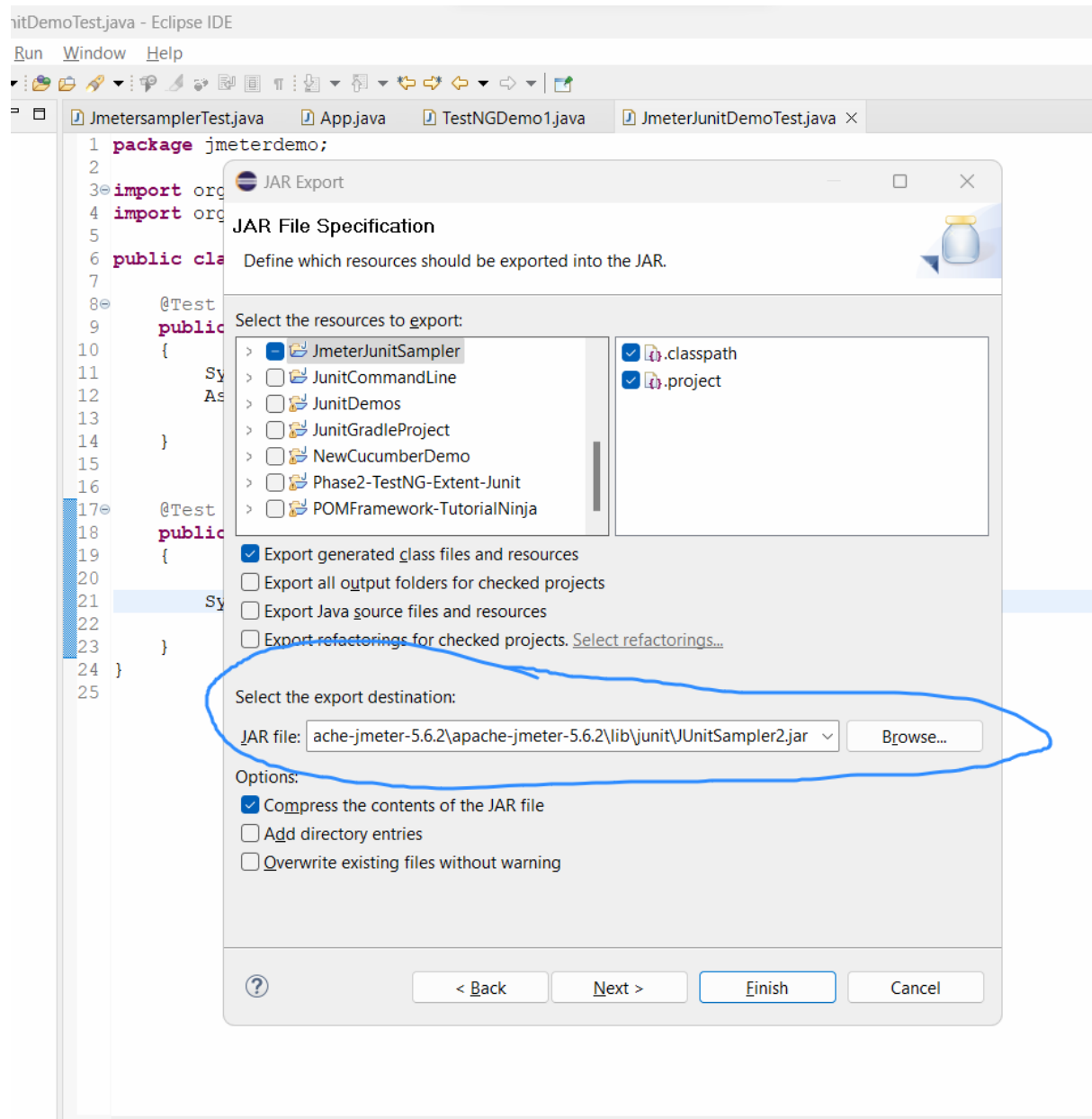
- JUnit
 - JRE System Library [JavaSE-11]
 - src
 - jmeterdemo
 - JmeterUnitDemoTest.java
 - JUnit 4

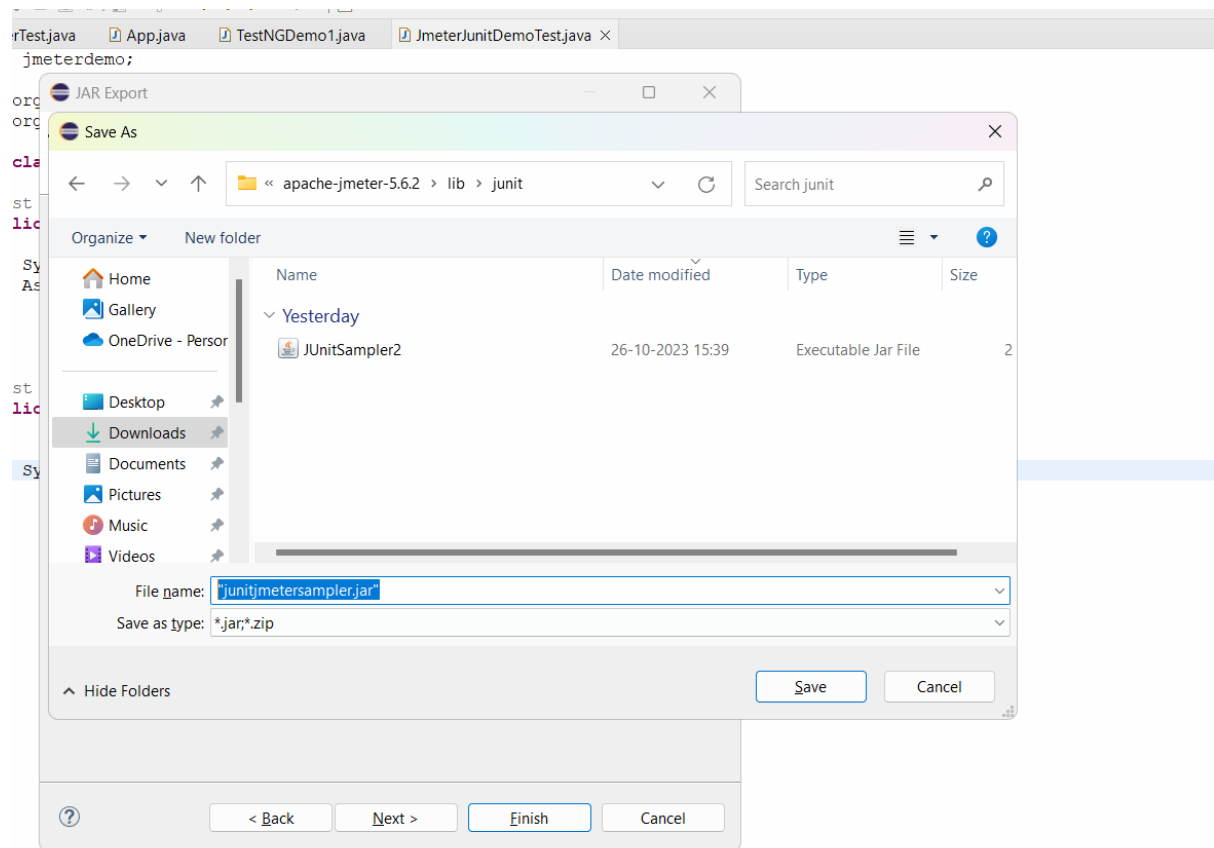
Next we have to export this Project of junit into a Jar file, so that jmeter can execute it.

Right click on project → select export → select Jar



Press next and select the export destination → Click on browse→ the path with jmeter/lib/junit folder -> C:\Users\DELL\Desktop\apache-jmeter-5.6.2\lib\junit\ JunitJmetersampler.jar

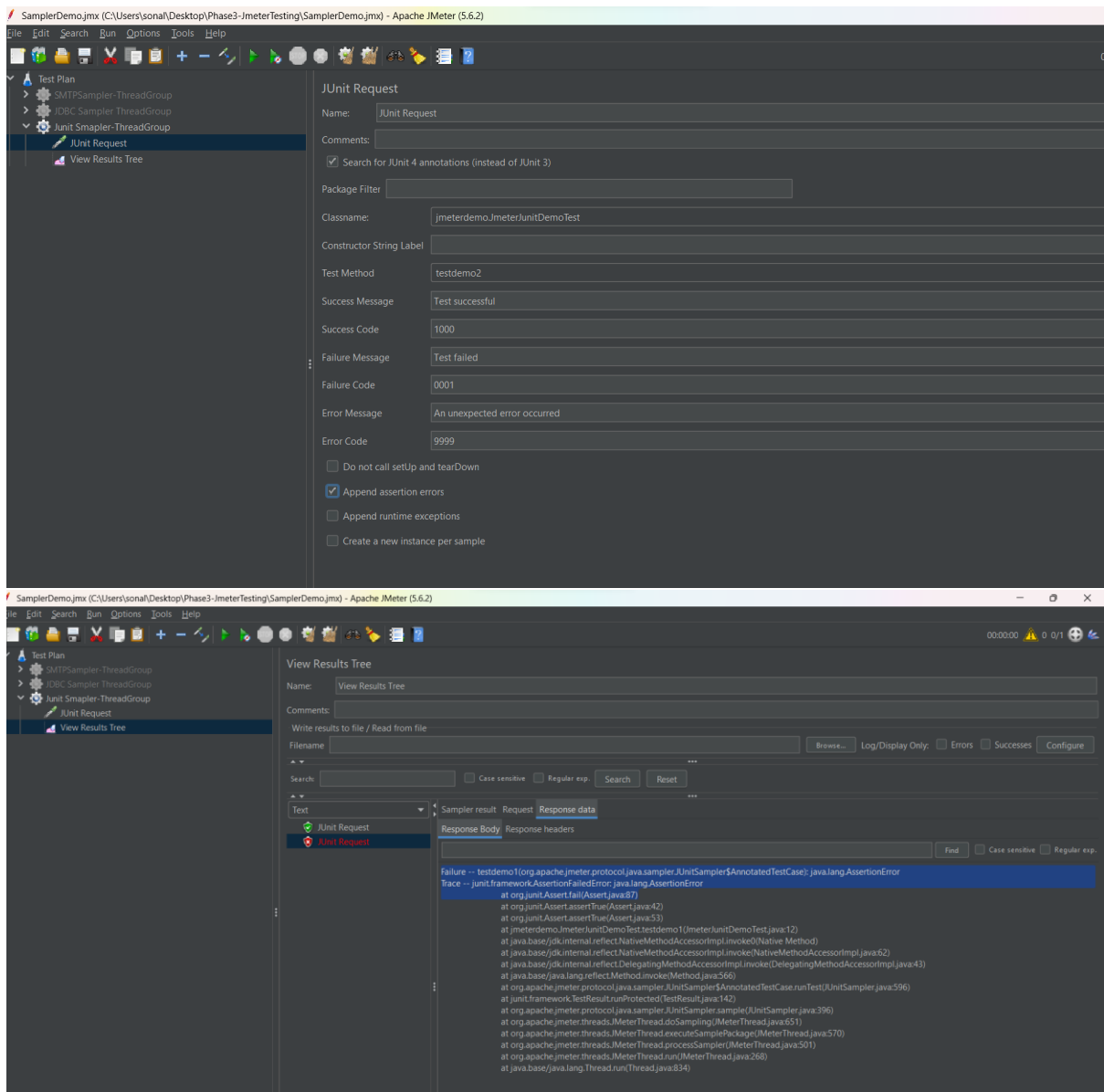




Click on save and finish button.

Close and restart jmeter.

ThreadGroup→ add→ junit request sampler→ in the smapler select below details



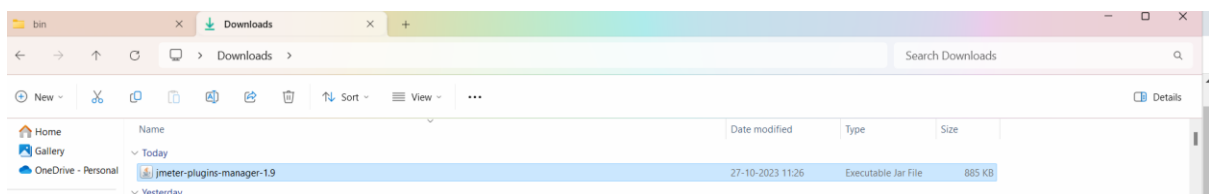
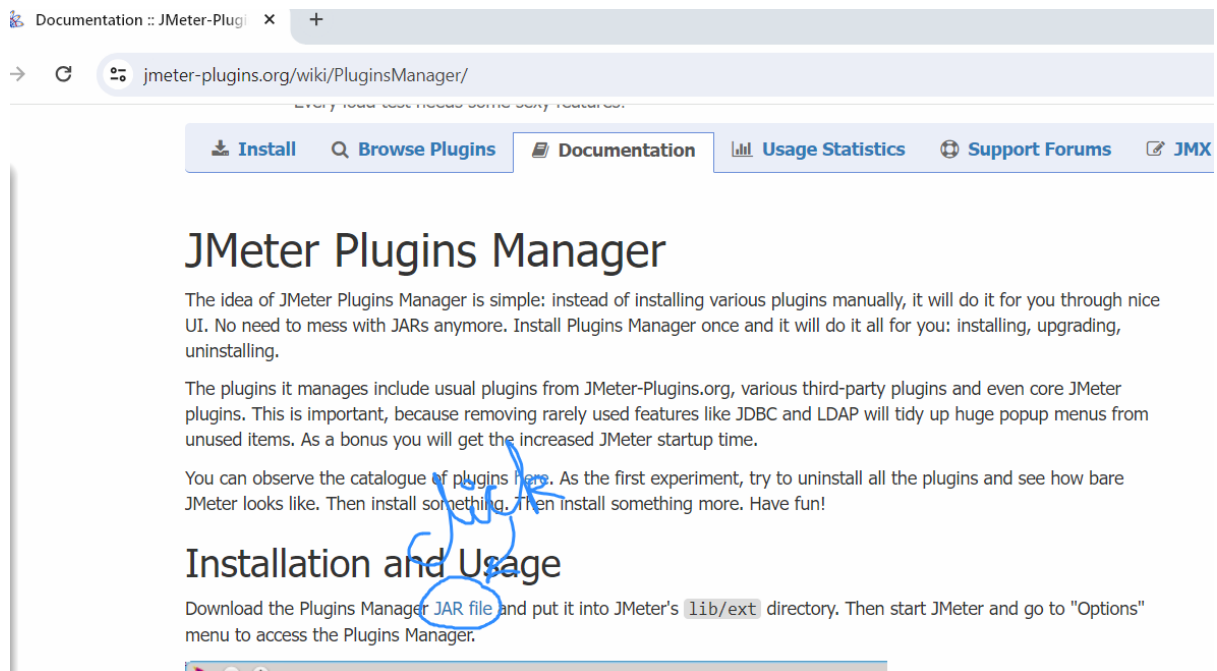
4. Selenium Sampler and WebDriver set sampler

We have to download plugin manager jar file for jmeter and add plugin manager to jmeter.

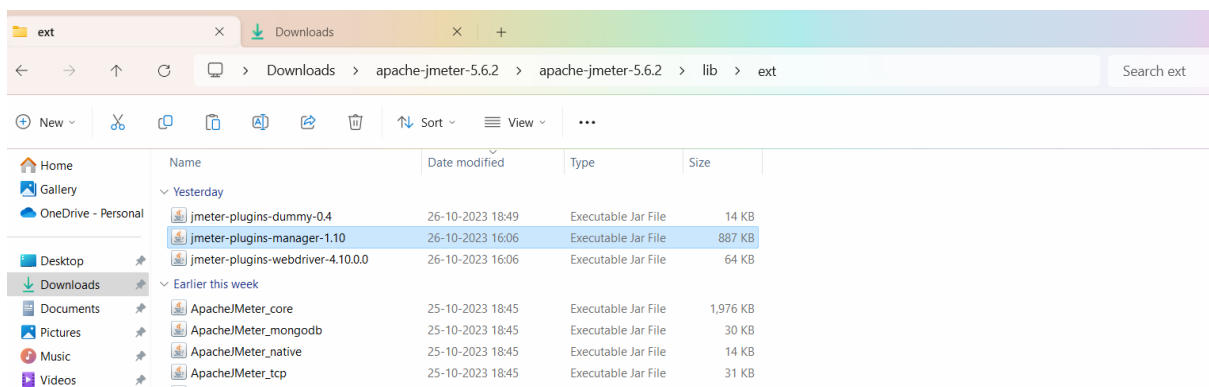
Installation and Usage

Download the Plugins Manager [JAR file](#) and put it into JMeter's `lib/ext` directory

<https://jmeter-plugins.org/wiki/PluginsManager/>

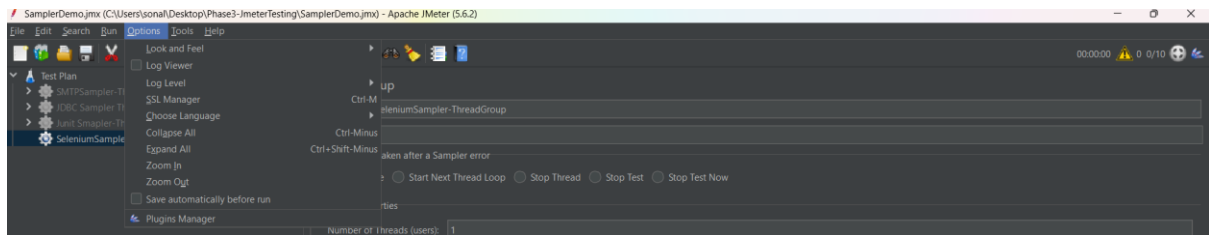


Copy this in jmeter folder → lib->ext folder

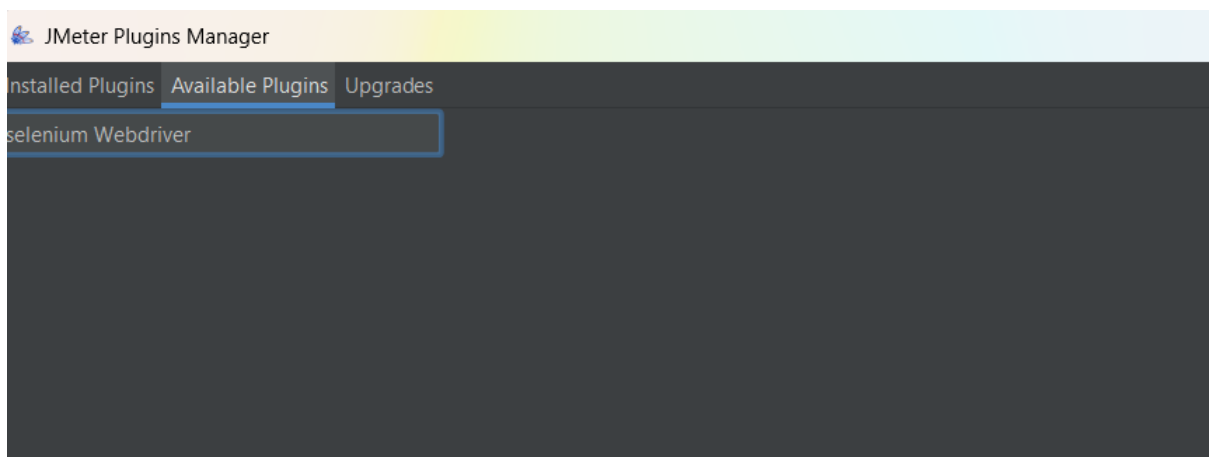


Stop and restart jmeter

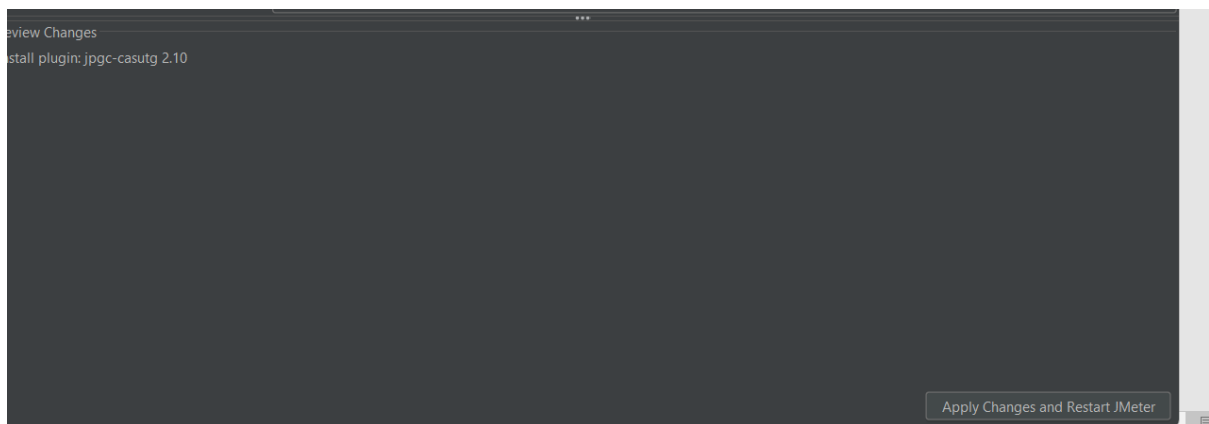
In Jmeter → go to Options -> you will see the Plugin Manager



Click on plugin manager → go to available plugins → search for selenium webdriver support plugin

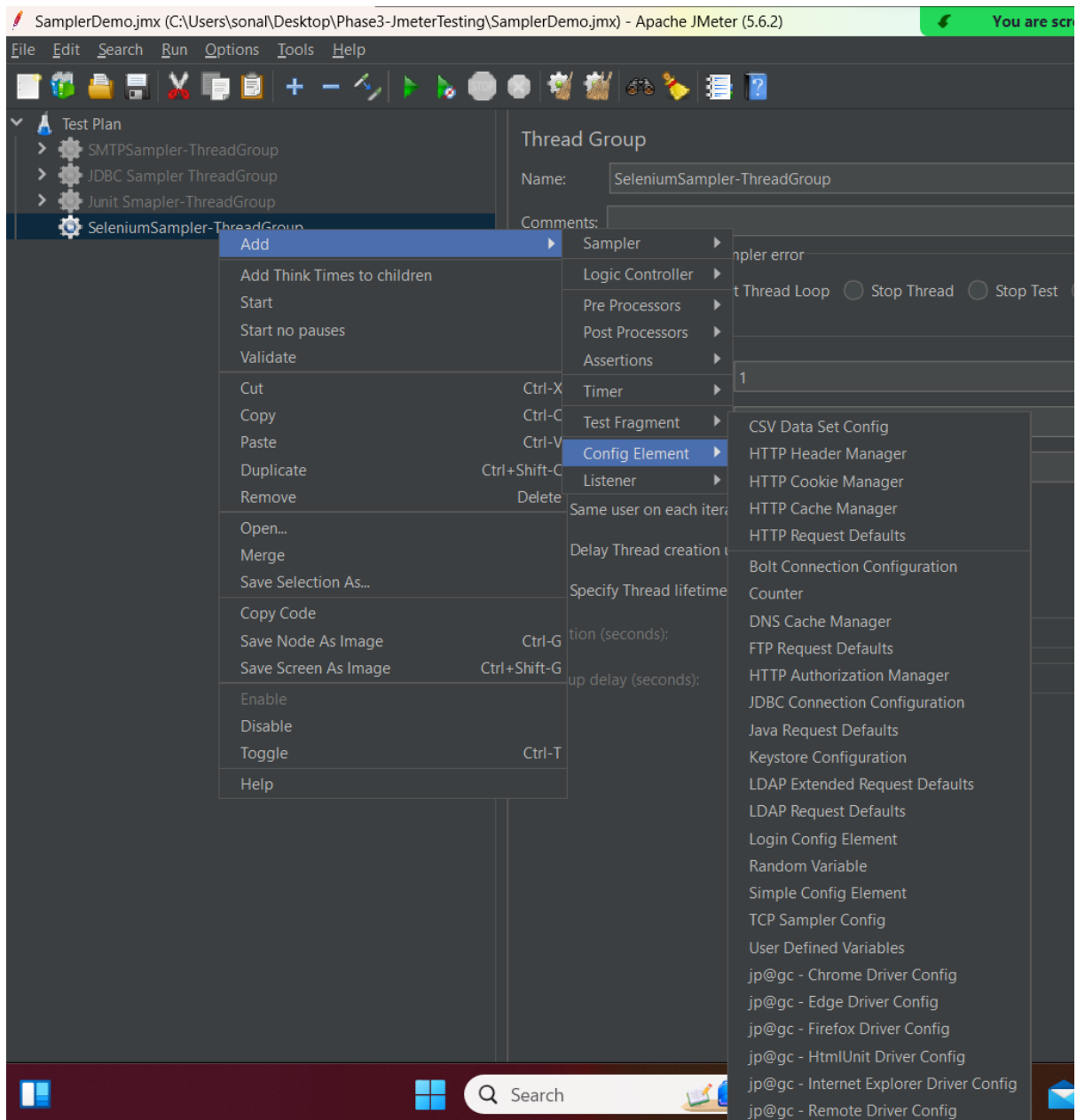


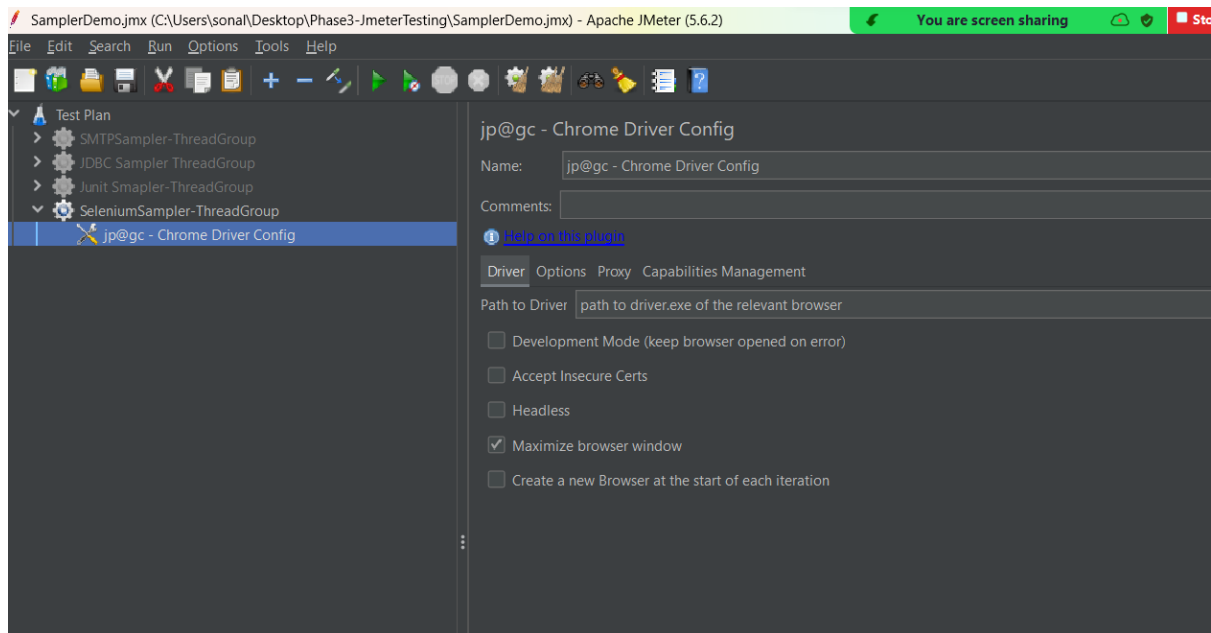
Click on Apply changes and restart jmeter



After this we can now add selenium configuration in jmeter

1. Add the threadGroup → add the config element → select the element jp@gc chromeDriver Config





For Jmeter to create a session with your chrome browser, we have to download chromedriver.exe

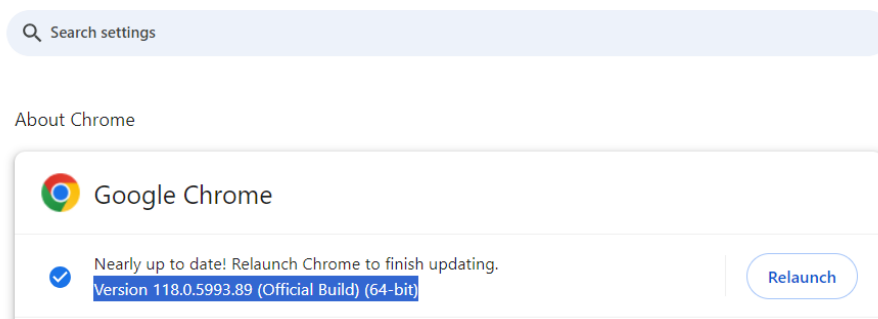
This has to be downloaded from selenium downloads website.

We have to give path of chromedriver.exe in ChromeDriver config

To download the chromedriver.exe use the below url:

<https://googlechromelabs.github.io/chrome-for-testing/>

Download that version of chromedriver which is same as that of your chrome browser version

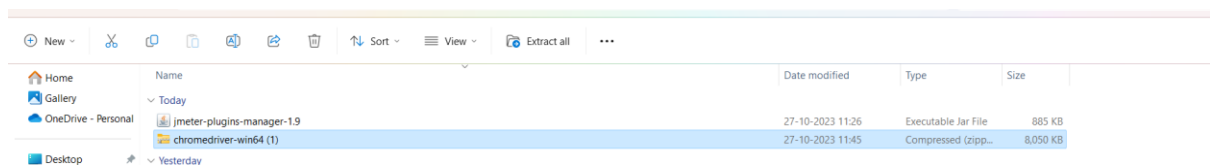


Chrome version in 118, download chromedriver.exe for 118 version only.

ersion: 118.0.5993.70 (r1192594)

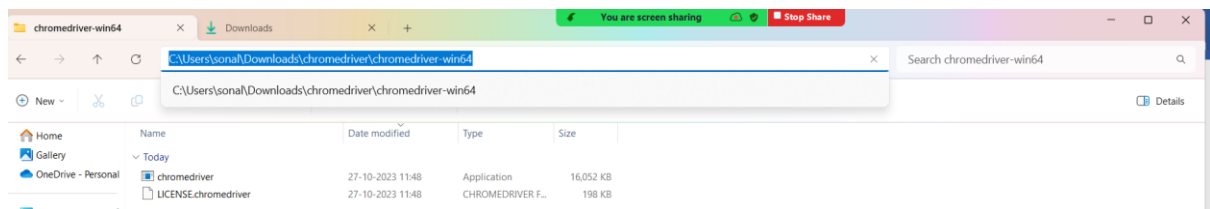
Binary	Platform	URL	HTTP status
chrome	linux64	https://edgedl.me.gvt1.com/edgedl/chrome/chrome-for-testing/118.0.5993.70/linux64/chrome-linux64.zip	200
chrome	mac-arm64	https://edgedl.me.gvt1.com/edgedl/chrome/chrome-for-testing/118.0.5993.70/mac-arm64/chrome-mac-arm64.zip	200
chrome	mac-x64	https://edgedl.me.gvt1.com/edgedl/chrome/chrome-for-testing/118.0.5993.70/mac-x64/chrome-mac-x64.zip	200
chrome	win32	https://edgedl.me.gvt1.com/edgedl/chrome/chrome-for-testing/118.0.5993.70/win32/chrome-win32.zip	200
chrome	win64	https://edgedl.me.gvt1.com/edgedl/chrome/chrome-for-testing/118.0.5993.70/win64/chrome-win64.zip	200
chromedriver	linux64	https://edgedl.me.gvt1.com/edgedl/chrome/chrome-for-testing/118.0.5993.70/linux64/chromedriver-linux64.zip	200
chromedriver	mac-arm64	https://edgedl.me.gvt1.com/edgedl/chrome/chrome-for-testing/118.0.5993.70/mac-arm64/chromedriver-mac-arm64.zip	200
chromedriver	mac-x64	https://edgedl.me.gvt1.com/edgedl/chrome/chrome-for-testing/118.0.5993.70/mac-x64/chromedriver-mac-x64.zip	200
chromedriver	win32	https://edgedl.me.gvt1.com/edgedl/chrome/chrome-for-testing/118.0.5993.70/win32/chromedriver-win32.zip	200
chromedriver	win64	https://edgedl.me.gvt1.com/edgedl/chrome/chrome-for-testing/118.0.5993.70/win64/chromedriver-win64.zip	200

Click on chromedriver win64 link.. it will download the driver zip

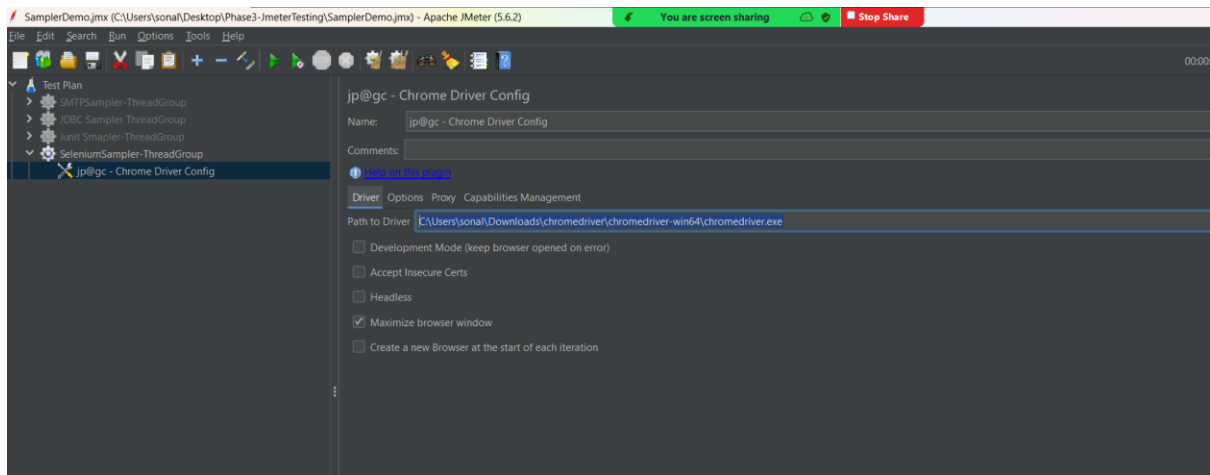


Extract the contents for the zip file.

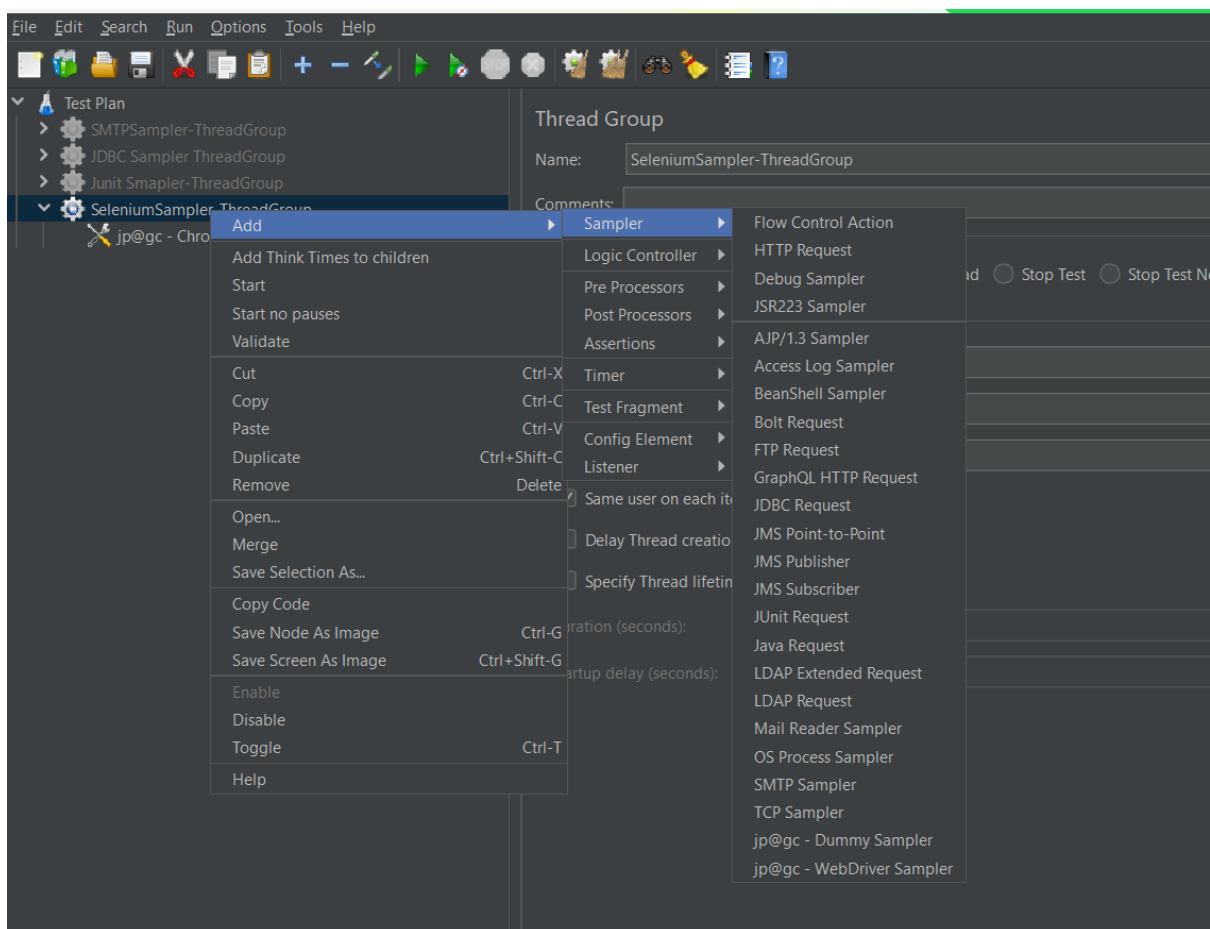
Rename the zip folder if needed. No space should be there in the folder name



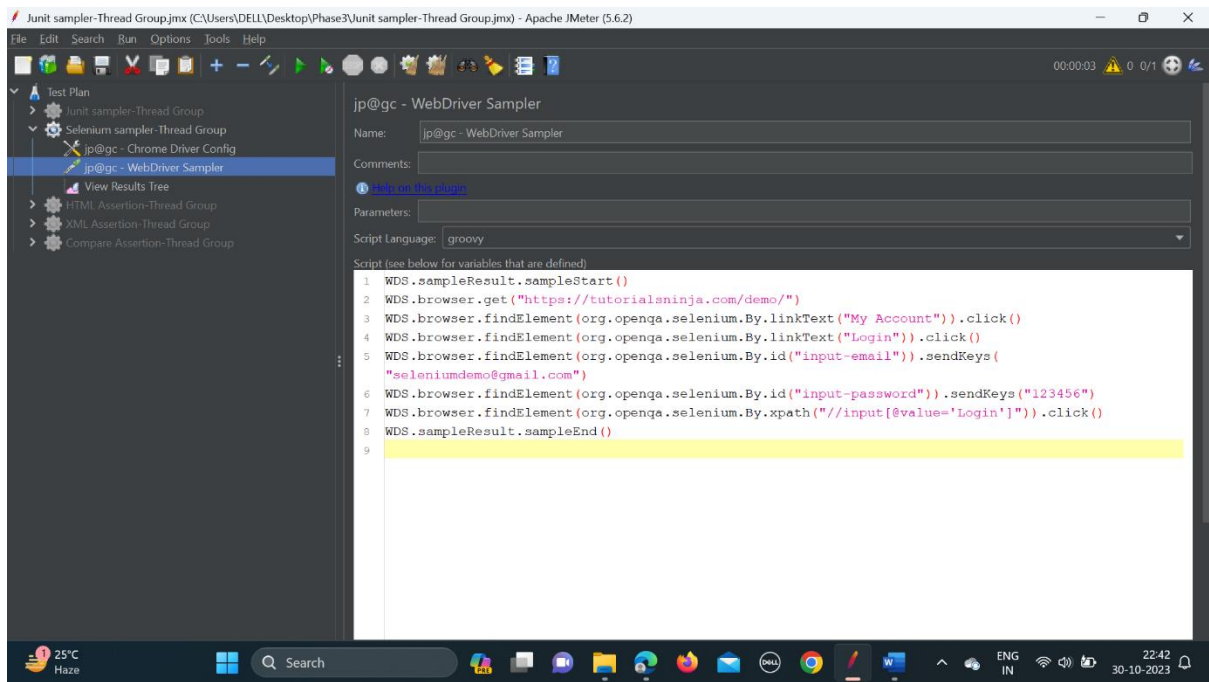
Copy the path of chromedriver folder and give it in Jmeter. Pls add the file name also at the end as chromedriver.exe



Now in the thread group add the webdriver sampler



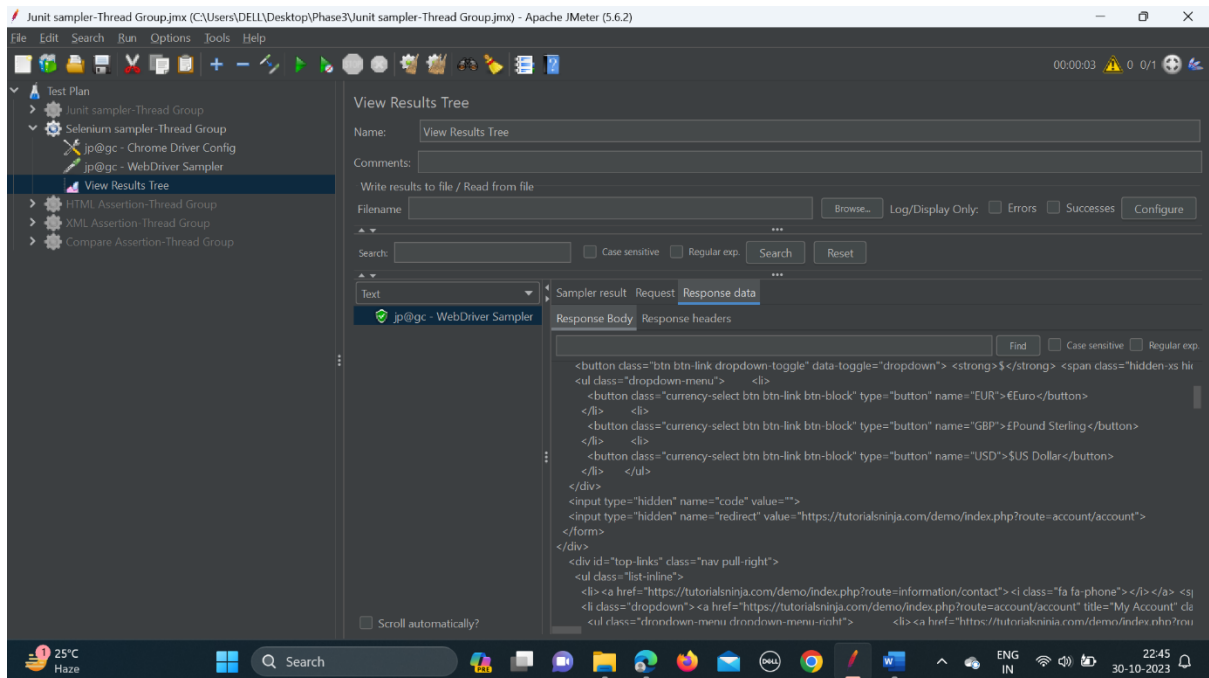
In the webdriver sampler we should write selenium code .



Click on save.

Then go to listener → add view results tree.

Then click on run.



5. FTP Sampler:

Download filezilla Client

FileZilla - The free FTP solution

filezilla-project.org

FileZilla

The free FTP solution

- Home
- FileZilla**
 - Features
 - Screenshots
 - Download
 - Documentation
 - FileZilla Pro
- FileZilla Server**
 - Download
- Community**
 - Forum
 - Wiki
- General**
 - FAQ
 - Support
 - Contact
 - License
 - Privacy Policy
 - Trademark Policy
- Development**
 - Source code
 - Nightly builds
 - Translations
 - Version history
 - Changelog

Promotion:

FileZilla® Pro
The Best FTP Solution

Overview

Welcome to the homepage of FileZilla®, the free FTP solution. The *FileZilla Client* not only is free of charge under the terms of the GNU General Public License.

We are also offering *FileZilla Pro*, with additional protocol support for WebDAV, Amazon Storage, and Google Cloud Storage.

Last but not least, *FileZilla Server* is a free open source FTP and FTPS Server.

Support is available through our [forums](#), the [wiki](#) and the [bug and feature request track](#).

In addition, you will find documentation on how to compile FileZilla and nightly builds for

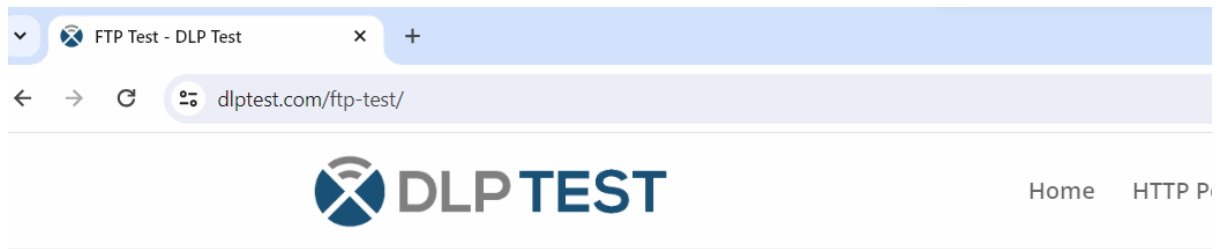
Quick download links

Download FileZilla Client
All platforms

Download FileZilla Server
All platforms

Pick the client if you want to transfer files. Get the server if you want to make file

FTP server details:



FTP Test

Our Public FTP test site info is below and can be used to upload test DLP files. The files will be stored for 10 minutes before being deleted.

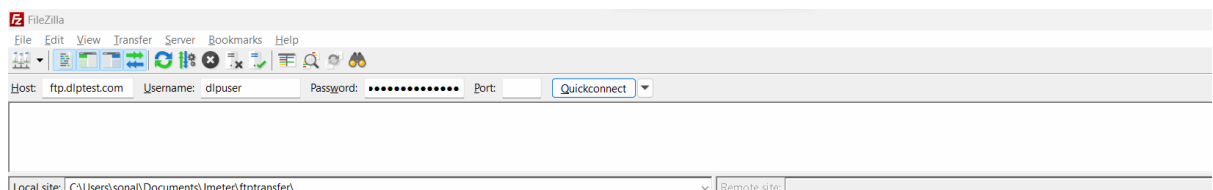
FTP URL: [ftp.dlptest.com](ftp://ftp.dlptest.com) or <ftp://ftp.dlptest.com/>

FTP User: [dlpuser](#)

Password: [rNrKYTX9g7z3RgJRmxWuGHbeu](#)

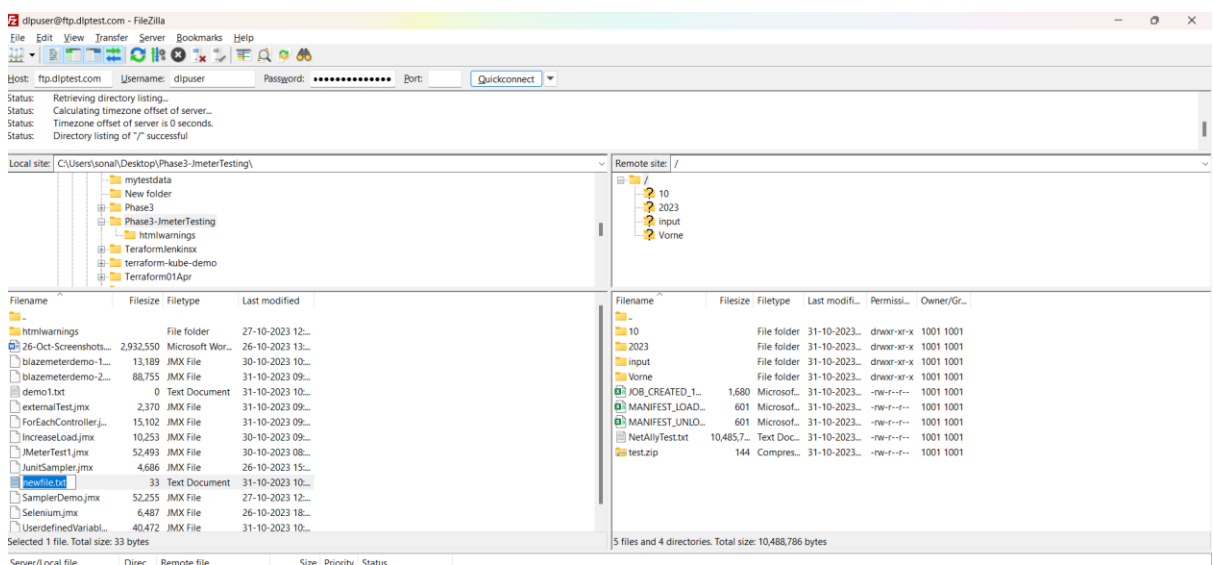
FileZilla Profile: https://dlptest.com/DLP_Test_FTP_FileZilla.xml

Give details in filezilla



Create file in any folder on your machine

Now in filezilla you will find your file in the folder



ite: C:\Users\sonal\Desktop\Phase3-JmeterTesting\

mytestdata

New folder

Phase3

Phase3-JmeterTesting

htmlwarnings

TeraformJenkinsx

terraform-kube-demo

Terraform01Apr

Remote site: /

10

2023

input

Vorne

Filename	Filesize	File
..		
10		File
2023		File
input		File
Vorne		File
MANIFEST_CREATED_1...	1,680	Mic
MANIFEST_LOAD...	601	Mic
MANIFEST_UNLO...	601	Mic
NetAllyTest.txt	10,485,7...	Text
test.zip	144	Cor

Upload

Add files to queue

Open

Edit

Create directory

Create directory and enter it

Refresh

Delete

Rename

33

Text Document

31-10-2023 10:...

Filename	Filesize	Filetype	Last modified
nlperDemo.jmx	52,255	JMX File	27-10-2023 12:...
enium.jmx	6,487	JMX File	26-10-2023 18:...
rdefinedVariabl...	40,472	JMX File	31-10-2023 10:...

1 file. Total size: 33 bytes

5 files and 4 directories. Total size: 10,4...

/Local file	Direc...	Remote file	Size	Priority	Status

