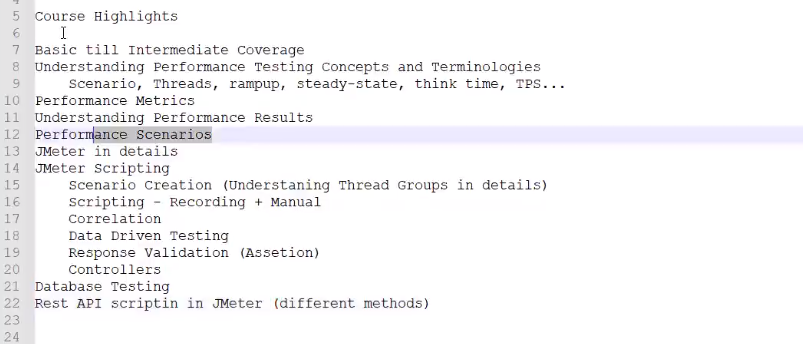
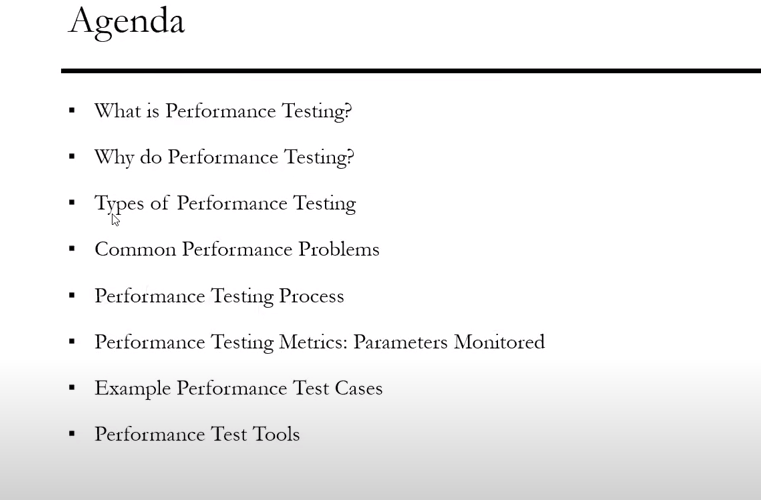
JMETER



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Performing testing :



What is performance testing?

\*Defined as type of **nonfunctional** software testing

\*Applications will perform well under expected workload like (**response time, reliability, resource usages, scalability)**

\*The goal of performance testing is not find bugs but to eliminate performance **bottlenecks** (particular some point significantly data transfer is slow).

\*The focus of performance testing is checking a software program’s   
**\*Speed  
\*Scalability(**maximum user load the software application can be handle **)  
\*Stability(**application is stable under varying loads **)**

**\***Performance testing is popularly called “Perf testing”.

2.Why we need performance testing

\*software need speed, scalability,stability,

3.Type of performance testing

\*Load testing

how the system behaves during normal and high loads and determines if a system

\*Street testing(extreme workload, how handle high traffic and data processing )

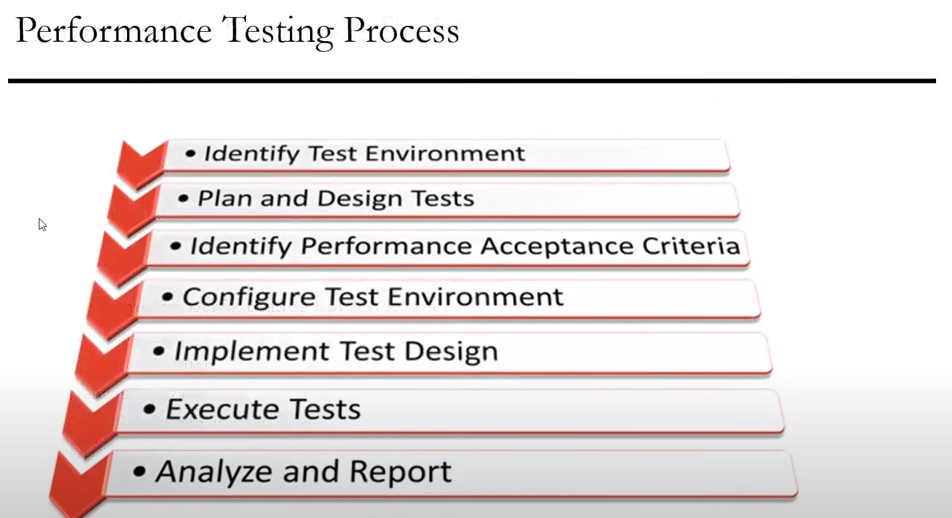
\*Endurance testing(software handle the expected load over a long period of time )

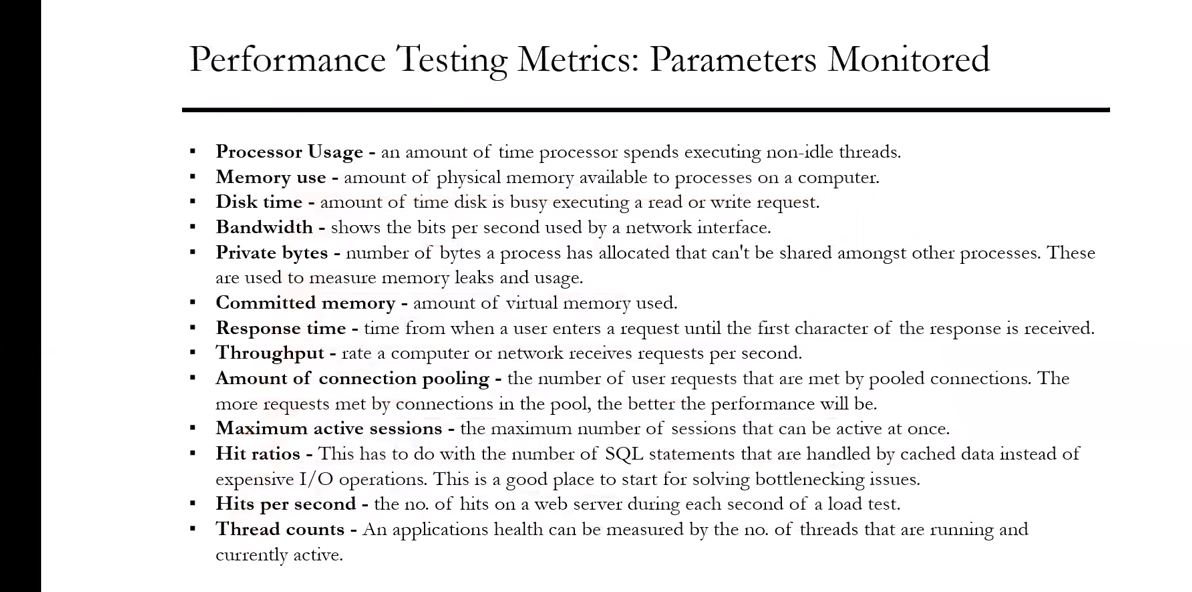
\*Spike testing (software reaction to sudden large spikes in load generated by user )

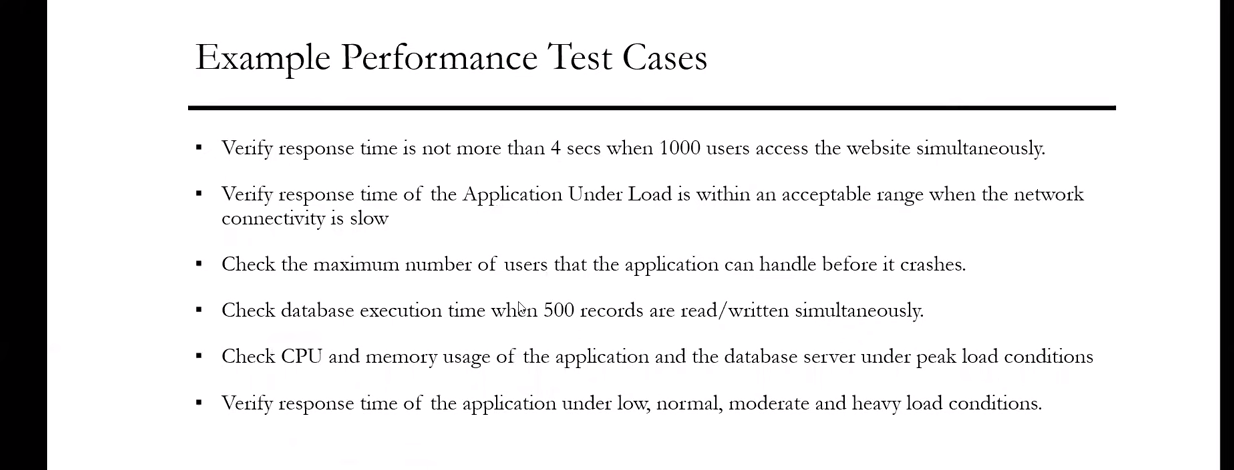
\*volume testing (under volume testing large number of data is populated in the database and overall software system behavior is monitored )

4.Common performance problems

* Long load time
* Poor response
* Poor scalability
* Bottlenecking
* Common performance
* Common performance bottlenecks
* CPU utilization
* Memory utilization
* Network utilization
* Operation utilization
* Disk usage

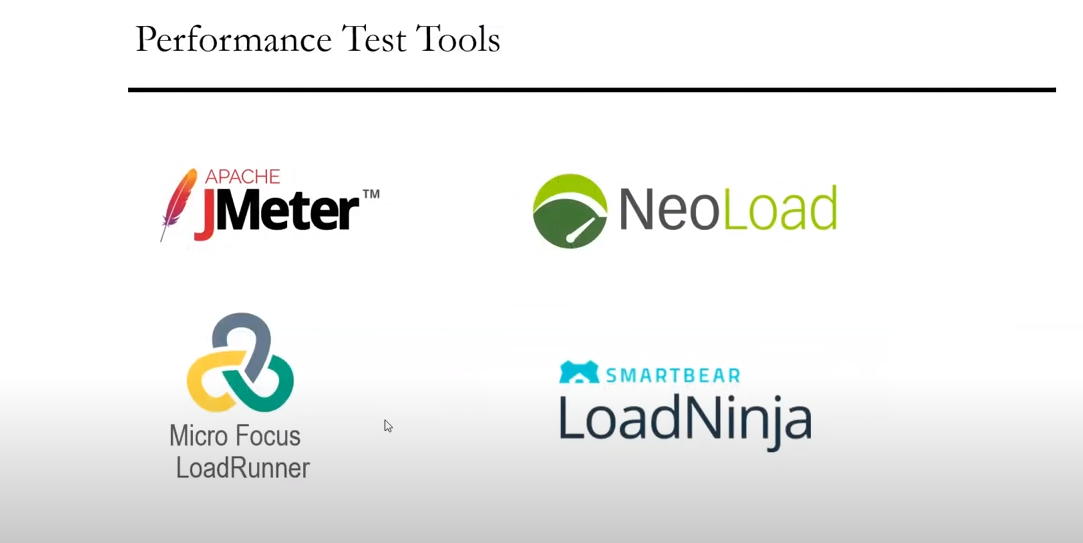






Street testing Endurance testing Load testing

Spike testing



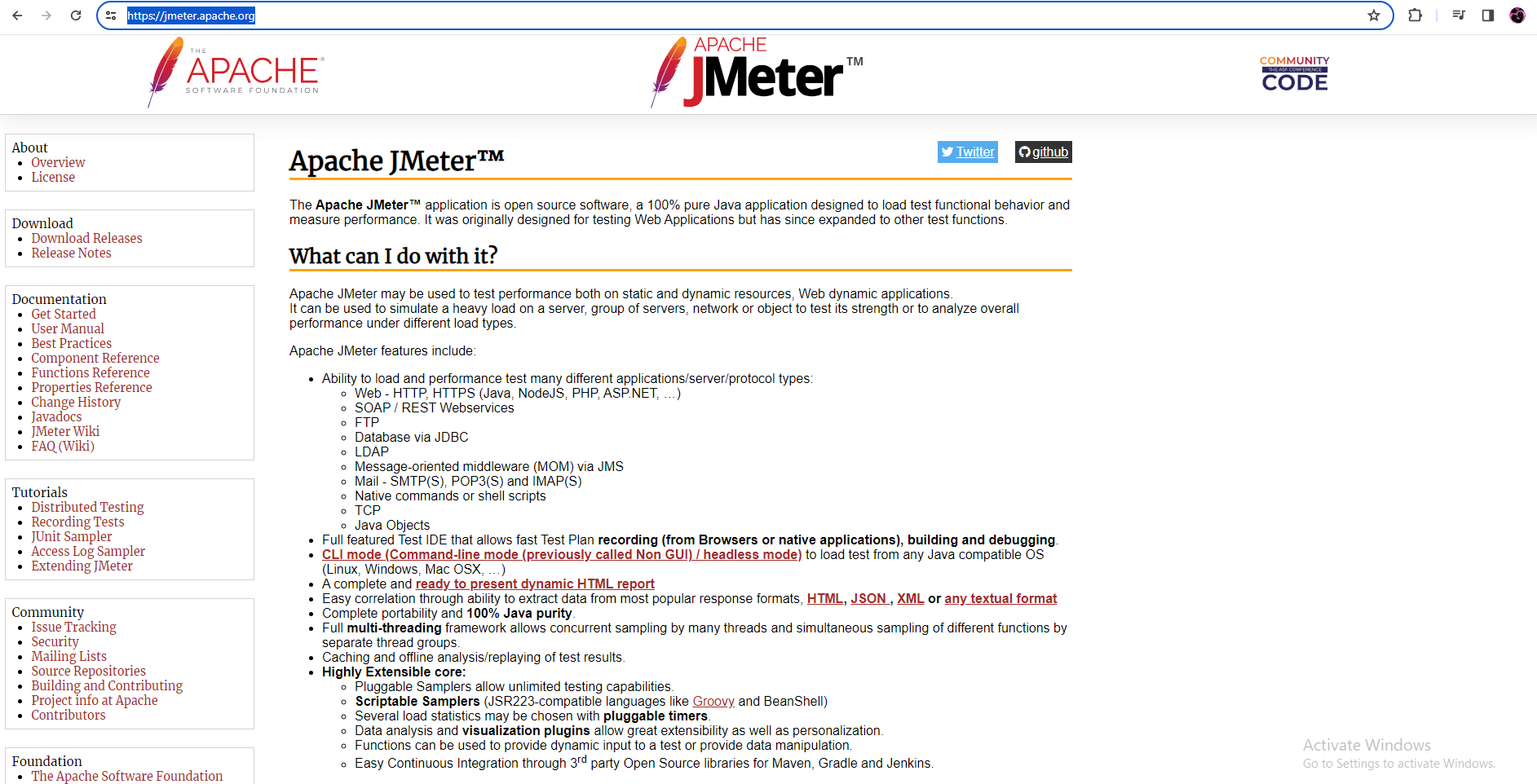
JMETER

* Free , open sources, platform independent
* Easy to Script (UI based)
* Pluggable samplers allow unlimited testing capabilities
* Data analysis and visualization plugins

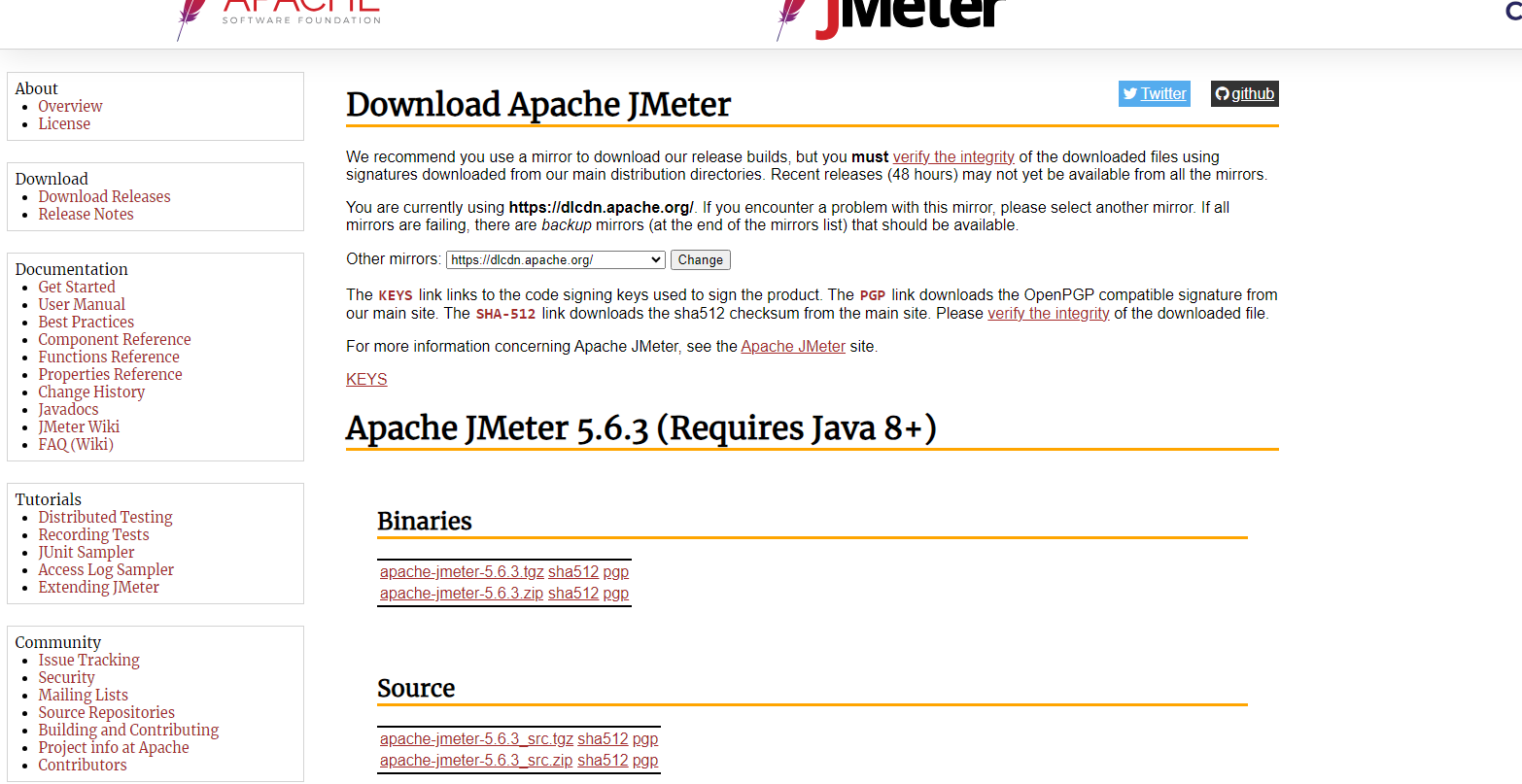
Jemeter designed to load test functional behavior and measure performance.

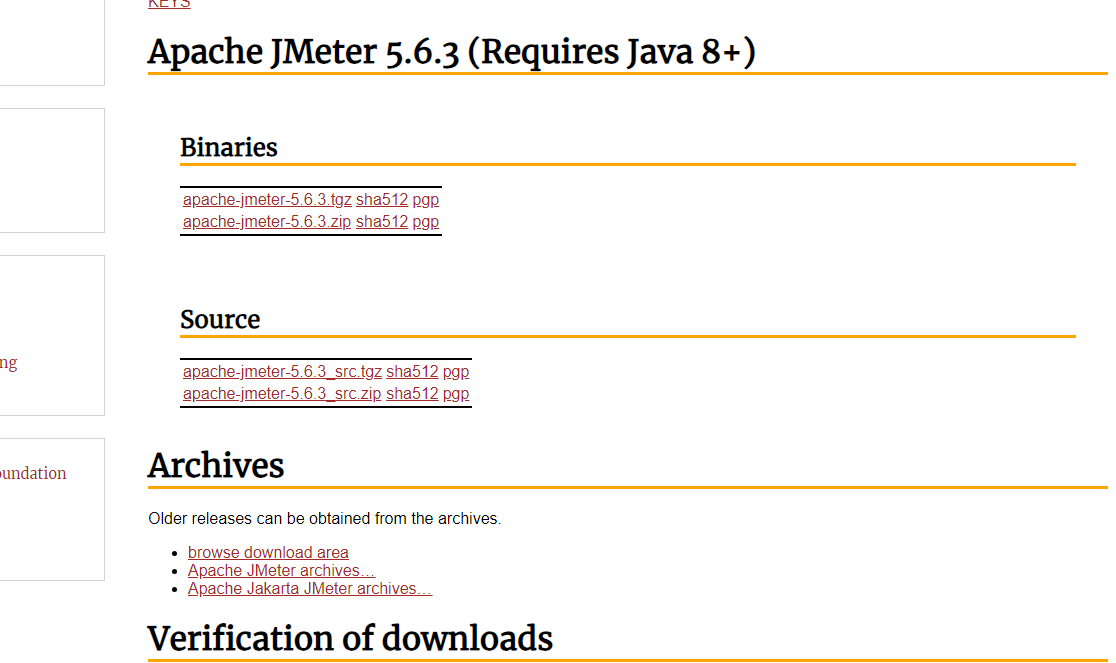
Jemeter download

url = <https://jmeter.apache.org/>



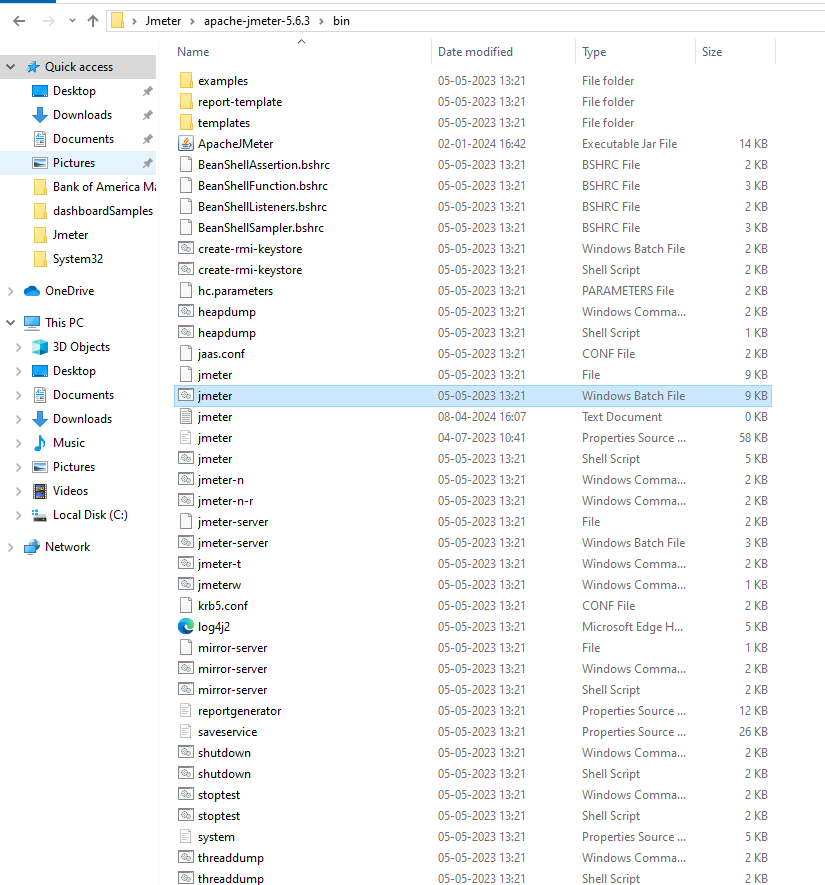
Click the download option





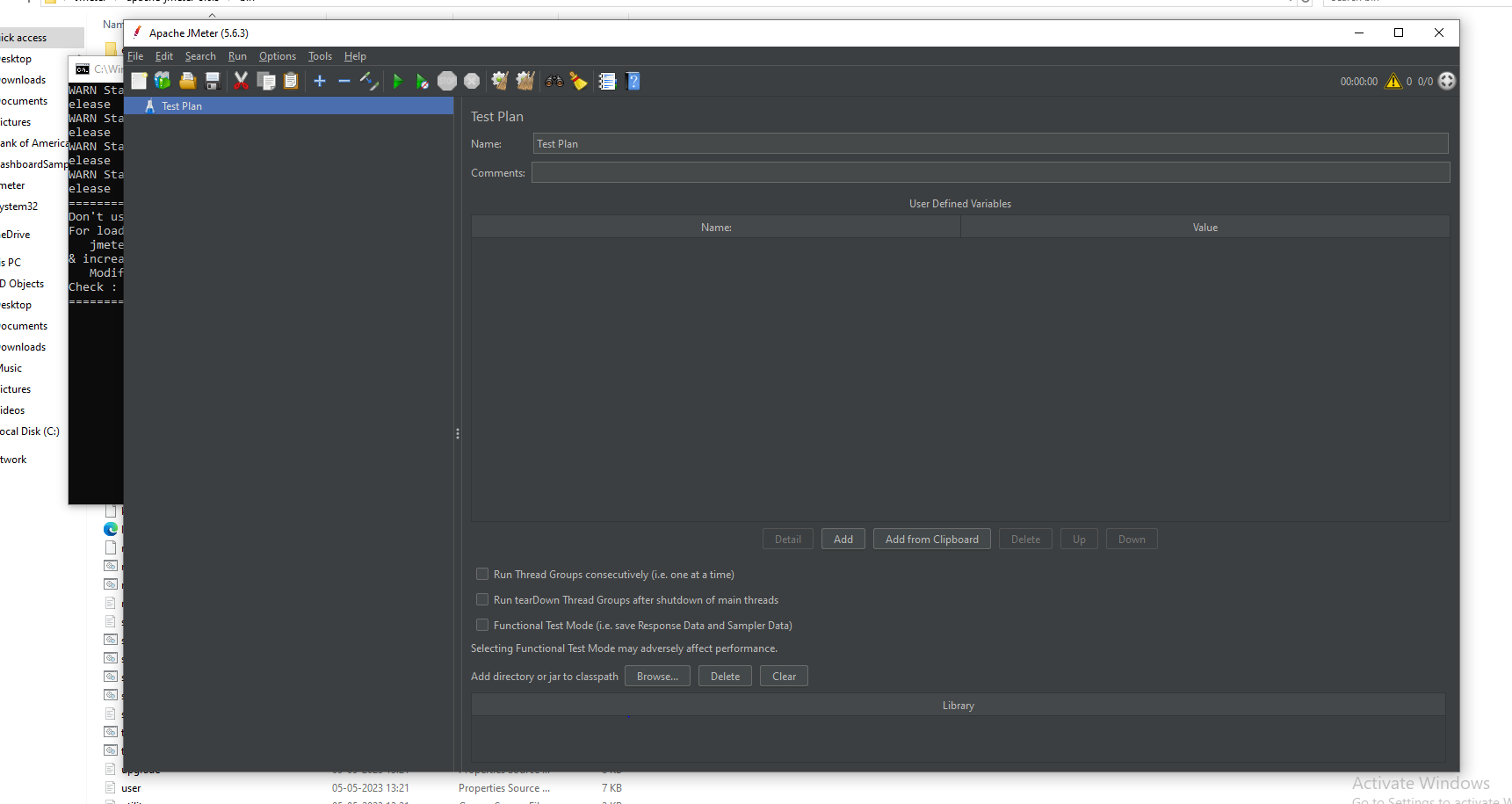
Click the zip file for windows

* unzip the folder



Bin path = C:\Users\C2TA\Desktop\Jmeter\apache-jmeter-5.6.3\bin

Click the jmeter windows batch file



Jmeter UI is open