

## JMETER DOCUMENTATION (PERFORMANCE TESTING)

**What is JMeter?** JMeter is a performance testing tool used for testing the web-based application and Mobile based applications to check the overall performance of the application by applying the number of loads i.e., users.

**What is the use of JMeter?** JMeter is basically used to apply the load on various phases like-

load, stress, volume, and soak testing:

- Load Testing - within the requirement (As per the load ex-100 users=100 users)
- Stress Testing - Against the requirement (beyond) ex-100 users = 500 users
- Volume Testing - Transferring a huge amount of data.
- Soak Testing - Transfer huge data within a specific period of a time.

### Advantages of JMeter:

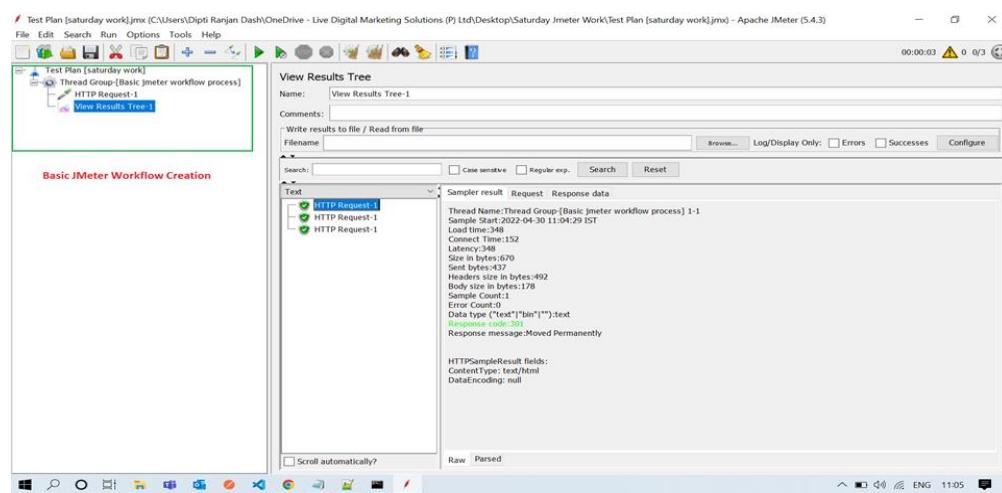
- Open-source tool
- GUI user-friendly (Graphical user interface)
- Execution Result-Multiple Formats

**JMeter elements? Examples?** The elements available in the JMeter tool are known as JMeter elements.

Example- thread group//sampler//listeners etc.

**How to create your first JMeter Test case execution?** what all pre-requisites we must follow:

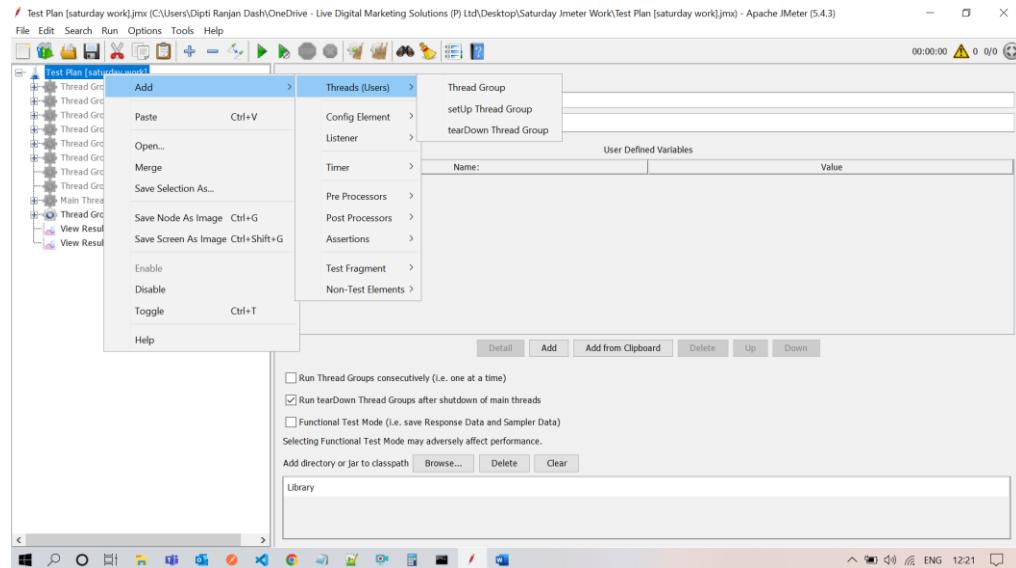
- Open JMeter
- Test plan
- Thread group
- Samplers Listeners save the plan and Execute the Test plan- once at a time [Execute]



**What is the Test plan?** A test plan is a document that stores thread group//samplers//listeners//and multiple operations.

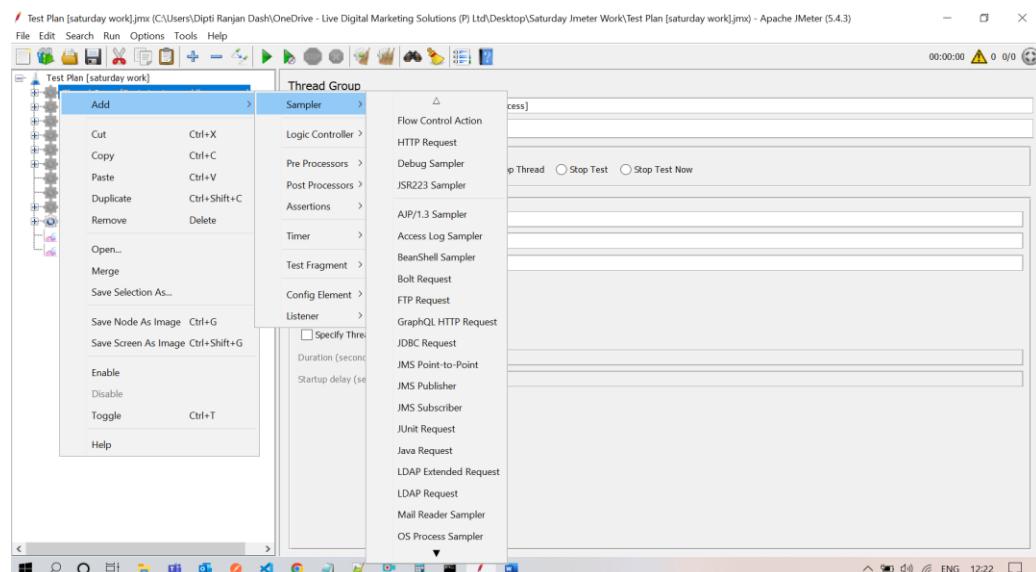
**What is the Thread group?** - Number of users we must define here lest say from 0-1000 to user need.

### Types of Thread groups-



**What are samplers?** - Request, Multiple requests available.

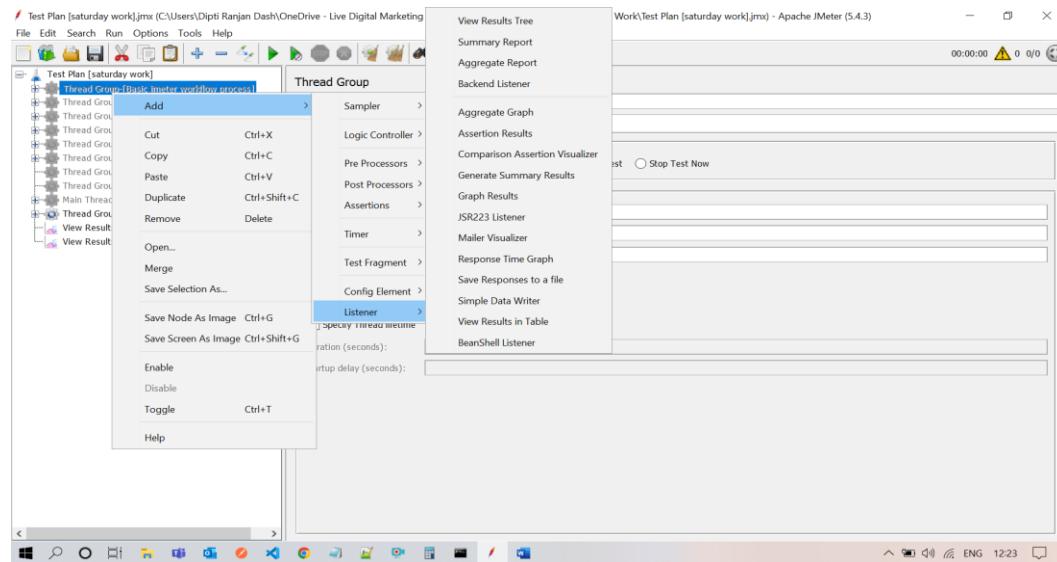
### Types of samplers-



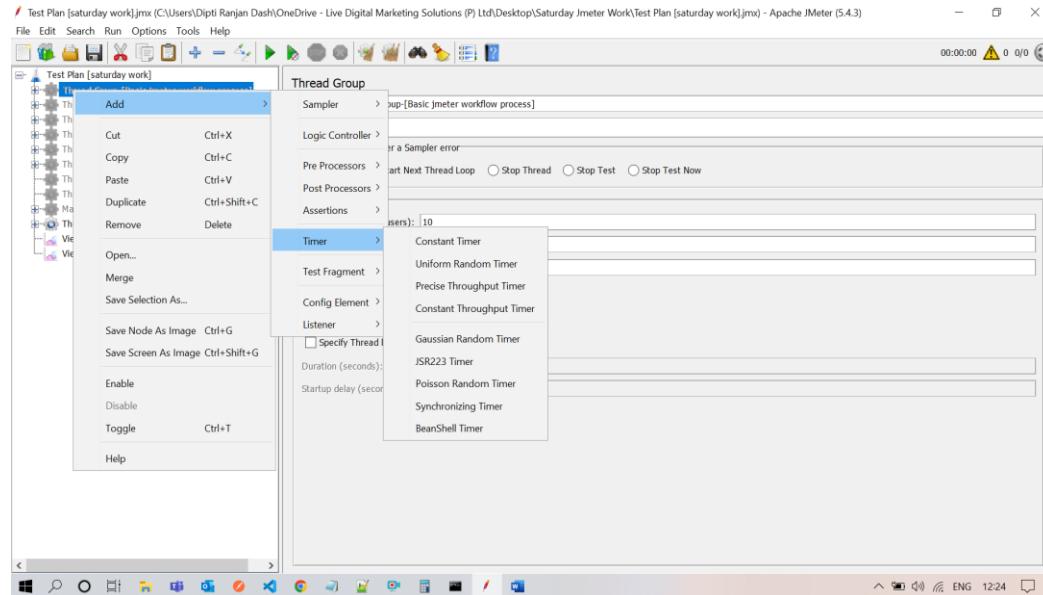
**What are Listeners?** output results/report generate for analysis the performance response.

**Multiple formats are available graph, summary, report, aggregate report, html.**

### **Types of Listeners-**



**What are Timers? Types of timers available? Which do we use the most?** Timers are the time for the sampler-request to perform when and how at what time. Also, we do have multiple Timers.



Constant timers and Uniform random timers

This two are widely used by timers.

pre-requisite (Timer should be created before the sampler calling)

### **Timeout periods-**

1sec = 1000ms

1min =60sec

1hr = 60min

24hrs =1440min

**What is correlation?** The relation between two samplers is known as co-relation. Example- Request1- will get some response data - from that response, we must fetch the data (which we required) and store it into a variable and pass it into the second Request2.

### **What is a regular expression extractor?**

syntax- <a href="(.\*)">

URL to access regex - <https://regexr.com/6jvcr>

variable calling- \${dipti}

### **What is the difference between constant and uniform Random timers? (Difference usage)?**

**Constant timer** = fixed timer

Example- 1000/2000/5000

1sec= 1000ms

**Uniform random timer** =

Random delay maximum (in milliseconds) - 5000

Constant delay offset (in milliseconds) - 1000

If the request is fetched under 1000 ms then it will not go for 5000

If not, then it will wait and search for 5000.

### **Doubts/concerns on JMeter?**

#### **Execution result- No. of users 1-1/No. of users, 1-2 under thread name what is this?**

Sampler = 1(Request)

User = 2

Two users performing a single sampler/request.

**Bytes//Latency//Sent bytes//Connect time MS//time//hits-per sec.**

- 1byte - 8bits
- Latency - internet connections.
- sent bytes - how many bits sent have been done for the request.
- connect time - How much time does it take to connect to the server.
- Hits- per sec -How much time it took to fetch a request on a basis of seconds.

**Example-(output)**

Thread Name:SC14\_DTAC\_BalanceTransfer\_API 1-1

Sample Start:2023-02-13 11:05:29 IST.

Load time:1889

Connect Time:0

Latency:1889

Size in bytes:712

Sent bytes:1557

Headers size in bytes:458

Body size in bytes:254

Sample Count:1

Error Count:0

Data type ("text"|"bin"|""):text

Response code:200

Response message:OK

HTTPSampleResult fields:

ContentType: application/json

DataEncoding: null

## **How to create multiple test plans in a single time/window? Without deleting others.**

JMeter does not support multiple test plans for a single window. (Limitation)

Exercises Practiced- [Basic Topics on above]

1. Creating a first JMeter test case with a single execution result?
2. Creating a second JMeter test case with multiple execution results?
3. Creating a test case with Timer execution result?  
for timeout period- 1000/2000/5000/20000 etc. [constant timer//uniform timer]
4. Creating a test case with a regular expression extractor?
5. Creating a test case with a regular expression extractor for multiple formats of listeners?

**Assertions- types of assertions?** Assertion means simply verifying the data fetched by the server for a particular request. For example- response code//response message//size//duration

### **Types of assertions-**

Response assertion

Duration assertion

Size assertion

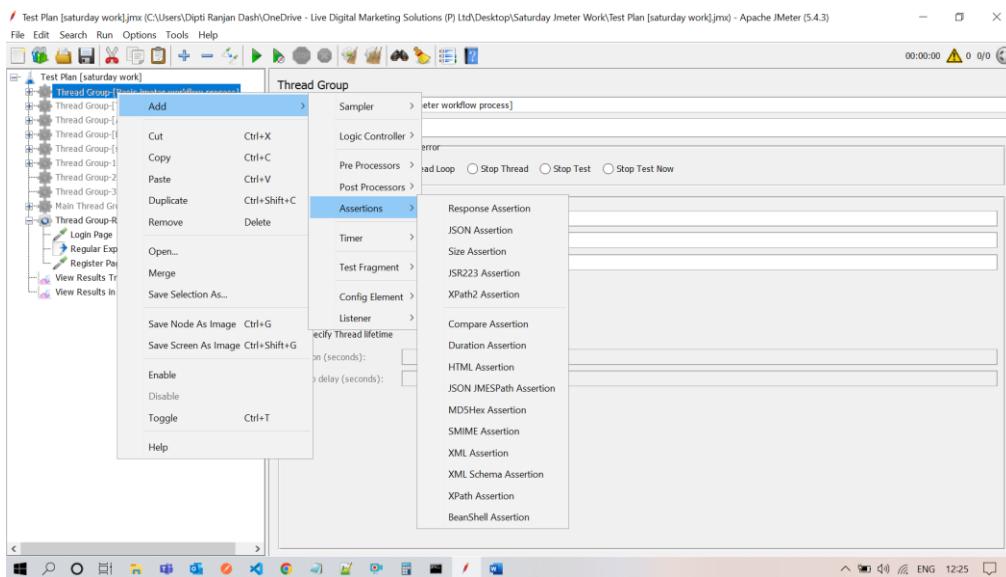
HTML assertion

XML assertion

X-path assertion

JSON assertion

XML-schema assertion

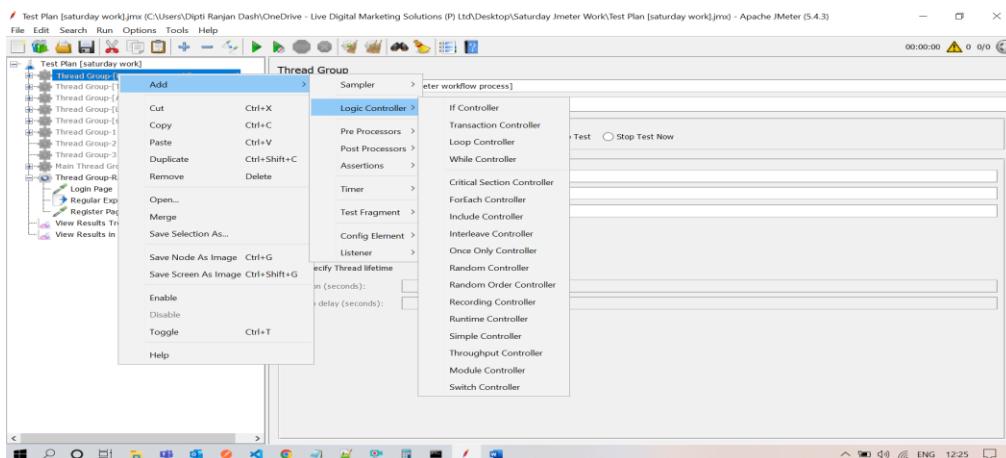


### **Creating an assertion test case with duration/response assertions format?**

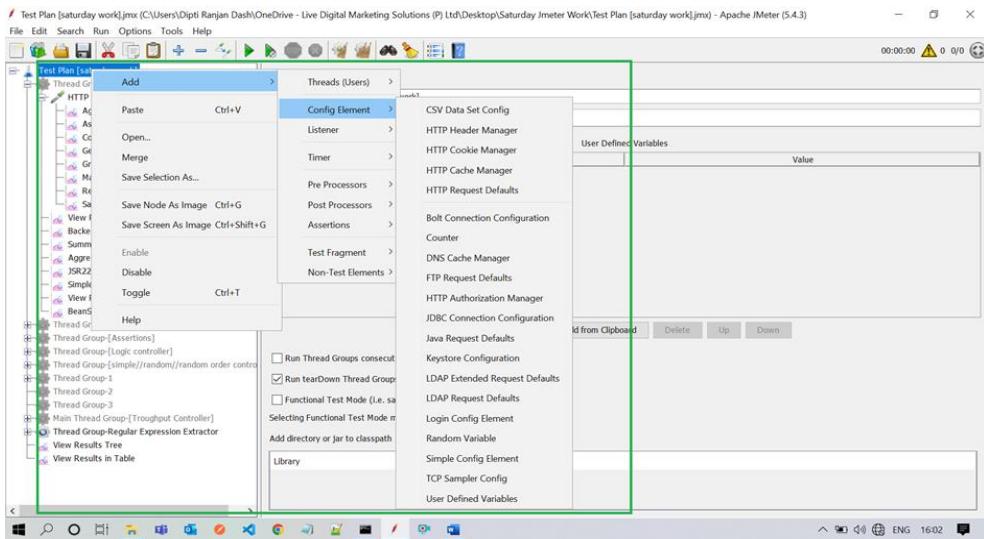
**Logic Controllers in JMeter?** The work is to control the samplers [In order to set how to execute and when to achieve the requests]

#### **Types of Logic controllers-**

- Loop controller - Execute a single request multiple time.
- Interleave controller - multiple requests will execute all in order-wise.
- Throughput controller - distribute the load into various samplers with the percentage setting depending upon the users.
- Random controller - It will execute each time a unique/dynamically request [will not follow order wise//not execute all requests]
- Random order controller - It will execute all the requests randomly and will not follow any sequence.
- Transaction controller - Transit the data from a - b as say.



## What are the configuration elements? Types of configuration elements?



## What is the use of a controller in JMeter?

To handle multiple requests for multiple operations, we must follow this sequence.

### write a test case for a logic controller? By using a loop controller?

write a test case for a single request executed 10times where others request by default?

### Doubts/concerns on JMeter?

Can we perform a single request or multiple requests? can we perform multiple requests in JMeter? Yes, we can create and follow multiple [no. of request]

### Why is HTTPS request-0/request-1 happening? under view results tree?

Because we have selected the

**Follow redirect** [option present in the sampler] as a ticked that's why we are getting it.

### By default, executing time? How much is it? 1000ms?

Depending upon the request/URL it will take some time to execute the response. [varies]

It doesn't follow any default time for fetching.

### What is a simple controller? and the uses?

Simple controller- a container that stores multiple requests in it[depending upon the requirement]

### **What is a module controller? and the uses?**

If we want to execute requests multiple times we go for this controller (child to parent calling).

### **What is a Test fragment controller? and the uses?**

A test fragment controller is almost the same as a simple controller [which stores multiple samplers]

**What is the included controller? and the uses?** Same as module controller operation. creating a test case with a simple module and Test fragment, including a controller with execution result? -[Execution workflow not worked correctly]

### **What are Random and Random order controllers?**

- Random controller - This will execute only one request at a time [i.e., dynamically]
- Random order controller - This will execute all the requests, but it should be dynamic [on each execution]

### **Difference between simple controllers and random order controllers?**

simple controller - A container that stores single/multiple requests.

[will follow the order in which we set them]

Random order controller - will not follow any order.

### **What are Random and Random order controllers in JMeter?**

creating a test case with Random and Random order controllers with execution results.

practical exercises.

### **Difference between simple controllers and random order controllers?**

### **What is an interleave controller? Usage?**

This controller will follow and execute the first request only (For multiple requests if there it will select only the first request)

### **What is a throughput controller? practical?**

A throughput controller is used to distribute the load across multiple requests.

Depending upon the user- The user should carry forward with the percentage.

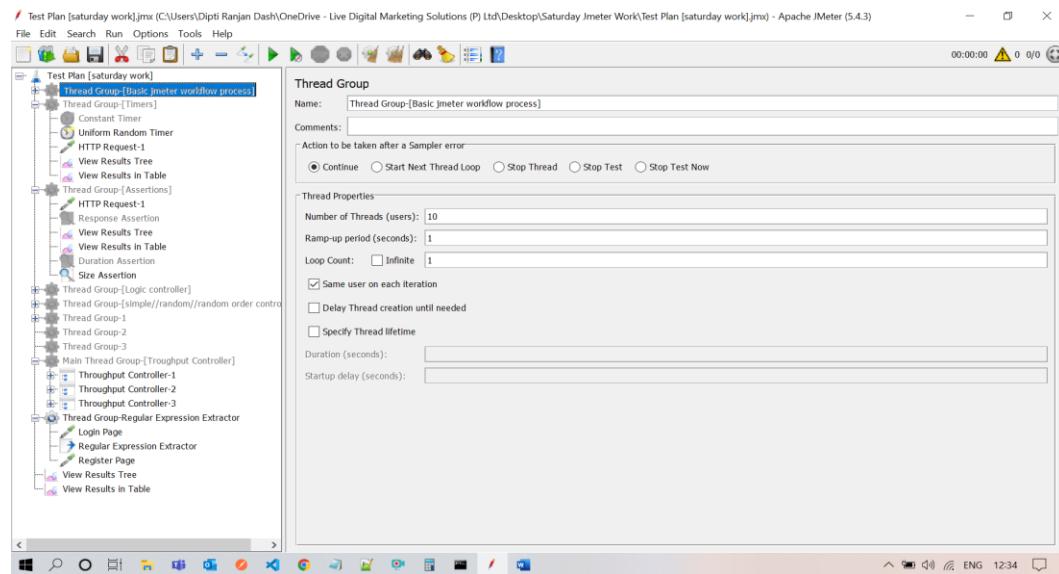
example- 2users = 20%

5users = 50%

pre-requisite - main thread group

**Why do we use a throughput controller? Advantages?** To ignore thread groups for huge/complex scripting.

### Practical showing the overall JMeter scripts-



## **HTTP Methods//HTTP Request**

**GET Request** - Get method is used to select/fetch the data from a database server.

whenever a URL is hit by the client/requested by the client end side.

**POST Request** -To create a new set of data on the database server by applying some.

input [ i.e., on Response body]

**PUT Request** - To update the data present inside the database server.

pre-requisition to follow- we must create new data by applying POST requests.

**DELETE Request** - If want to delete a new data/existing data available on the database server. (Is to remove the data permanently)

### **Request//Response-**

#### **What is the request?**

A client sends a request to fetch some data from the database server.

Example- If a client wants to open a Flipkart application.

Then he/she must open the browser.

Type the domain name and URL.

Search for it- front end application will open (Flipkart).

So, the application will open using a database server. [That was hit by the users]

**In short - A user request = response data.**

## Regular Expression Extractor-Note

### **Concept/Fundamental-**

Request1- when we hit request-1 it will get some response data and within the response, we must fetch some more data.

Then in that condition, we must use a Regular expression extractor to fetch the data.

we must create a regex syntax for that element by using-

Example- "msisdn": "(.\*?)" store this into a variable and over-ride to the request-2 sampler.

### **steps to follow:**

1. Go to view results tree format Report-

Go to response data- Response body- select the proper attribute name with the attribute value. (Whichever we need)

Example- "msisdn": "666777822222625",

2. copy the selected element and paste it into the search bar- with case sensitive and regular expressions (Ticked)

3. click the find button- it will show the element with green highlighted below the response body.

4. Then follow the proper syntax for dynamic element fetching- By using (.\*?)

example- "msisdn": "(.\*?)" ,

(By default, the format will be in - text)

5. To check and cross verify the expression syntax-

make it to - RegExp Tester.

under Regular Expression- paste "msisdn": "(.\*?)" , and hit to Test.

output-

Match count: 1

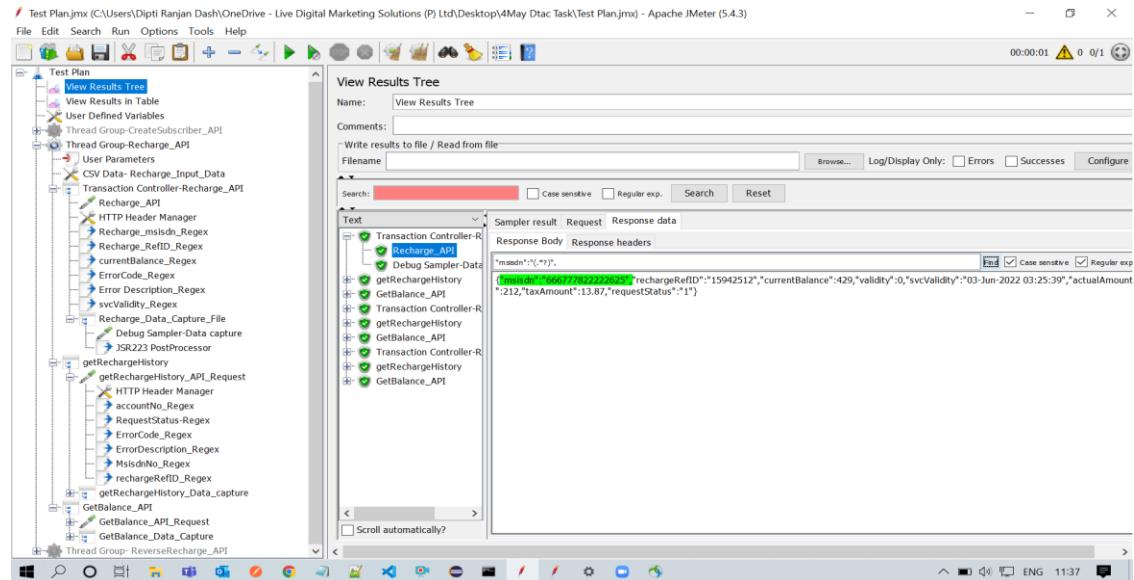
Match[1][0]= "msisdn": "666777822222625",

Match[1][1]= 666777822222625

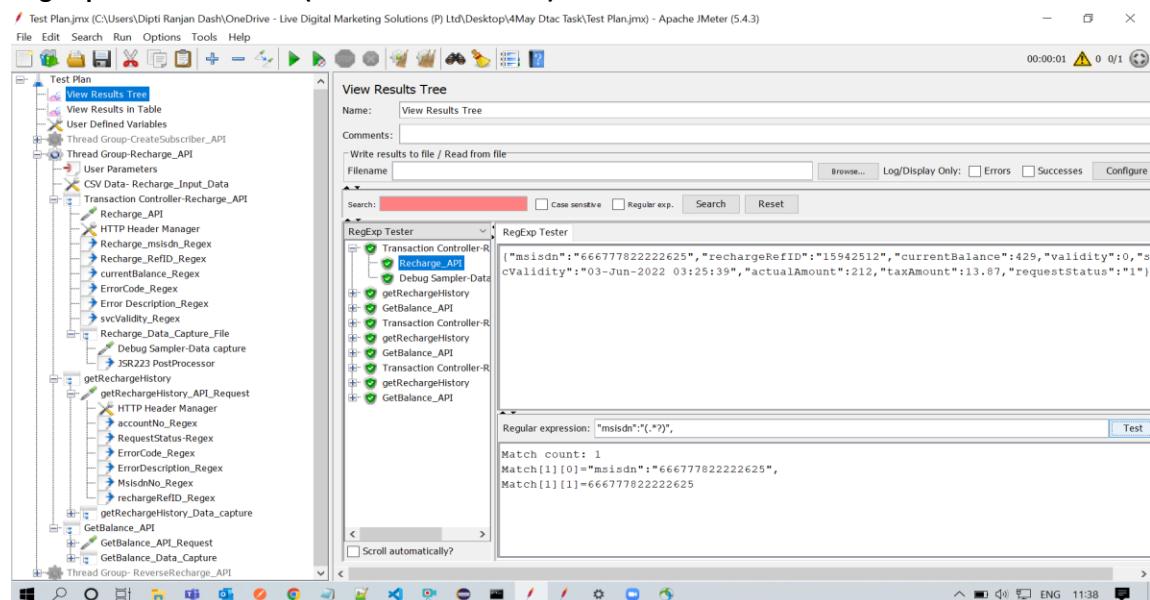
### **Note:**

we can also do the same operation on this site- <https://regexr.com/>

## Text Formation- (verification in JMeter)



## Reg-Exp Tester Formation (verification in JMeter)-



## Open site (Reg-Exp)-

The screenshot shows a web browser window with the URL [regrexr.com](https://regrexr.com). The page displays a regular expression tester. On the left, there's a sidebar with a 'Menu' section containing links to 'Pattern Settings', 'My Patterns', 'Cheatsheet', 'RegEx Reference', and 'Community Patterns'. Below the menu, a note says 'RegExr is an online tool to learn, build, & test Regular Expressions (RegEx / RegExp).'. A list of features follows: 'Supports JavaScript & PHP/PCRE RegEx.', 'Results update in real-time as you type.', 'Roll over a match or expression for details.', 'Validate patterns with suites of Tests.', and 'Save & share expressions with others.' An advertisement for Adobe Creative Cloud for Teams is visible at the bottom of the sidebar.

In the main area, the title 'Expression' is shown above a text input field containing the regex pattern `/msisdn": "(.*?)"` with the 'g' flag. Below the input, it says '1 match (0.3ms)' and shows the JSON response: `{"msisdn": "666777822222625", "rechargeRefID": "15942512", "currentBalance": 429, "validity": 0, "svcValidity": "03-Jun-2022 03:25:39", "actualAmount": 212, "taxAmount": 13.87, "requestStatus": "1"}`. There are tabs for 'Text' and 'Tests', and a 'Tools' section below with a button labeled '\$&\n'. At the bottom, there are various browser control buttons like back, forward, search, and refresh.

## Key Points (JMeter):

1. How to install JMeter Tool on windows and mac os?
2. Scope of the JMeter in the future?
3. How to write your first JMeter test case? What steps do we have to follow?

**What is the difference between the stop button and a shutdown button?**

Stop- execution stop forcefully.

Shutdown- stop the currently running thread execution.

## 4. What are Assertions? How to use Assertions?

Verification of the data present in the response data is called an Assertion.

Types of Assertions-

Response assertion

Duration assertion

Size assertion

Html assertion

Xml assertion

Xml schema assertion

X-path assertion

## 5. what/How to use listeners?

To generate the output values of a request/samplers is called Listeners.

Types of listeners?

View results tree

View results in table

Aggregate report - single line output 99% line = max [both are same]

Graph Results- do not use in heavy load period.

Summary report

Simple data writer - write the output into a file format.csv, excel any format.

Latency - time to the first byte

Example-

1001ms-----  
user-----1000ms  
Oms-----5000ms

Connecting time-

How much time does it take to connect to the server [following multiple activities]

## 6. How to record UI (web) Tests?

We can record and perform the scenario by using two tools-

1. Badboy tool (available for windows)

2.BlazeMeter tool (available for windows and mac OS)

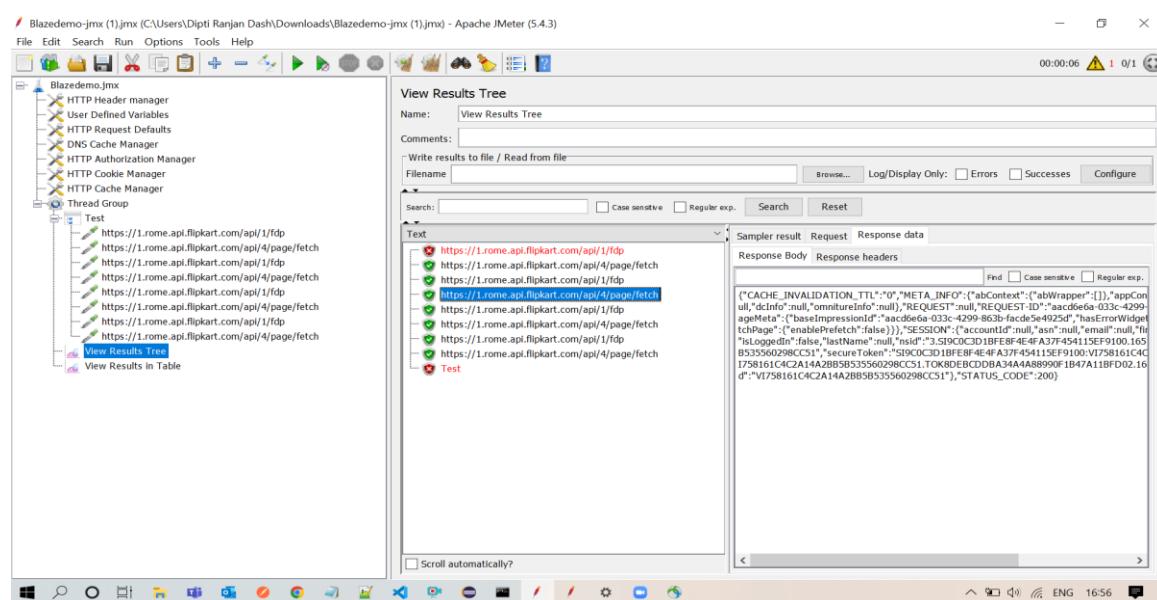
Practical practiced and implemented successfully worked- By using Blaze meter tool.

### Recording controller-

If we want to record a scenario based on the requirement and user needs.

At that stage we will use JMeter for recording or else we can also use Blaze Meter,

a bad boy Tool (Performance testing tool).



## 7.JMeter how to test the login page? using Blaze Meter tool?

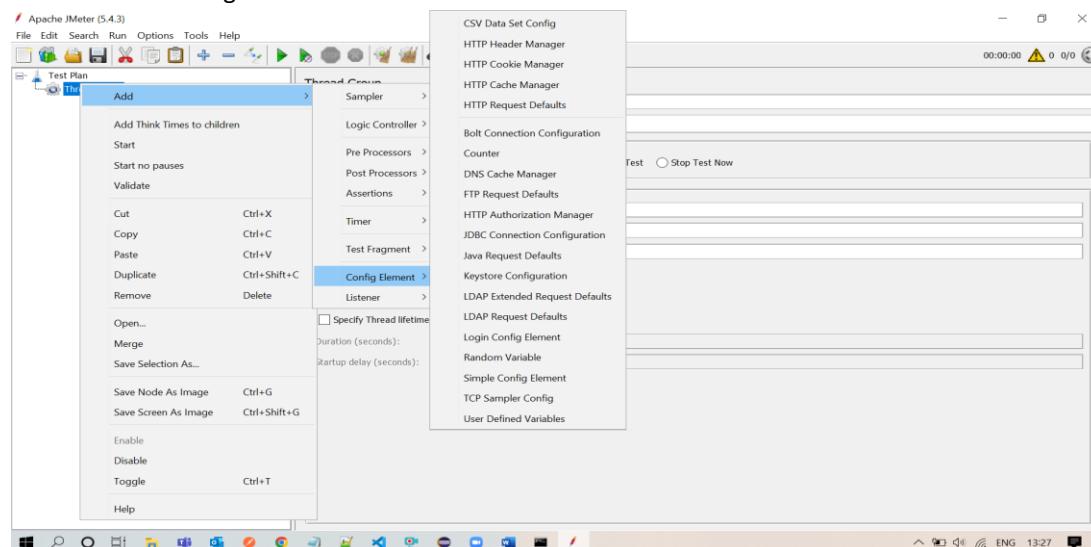
By using the Blaze Meter tool, we can record the scenario whichever we want.  
To perform can execute it into the JMeter tool.

## 8. what are configuration elements? Types of configuration elements?

By default, variables will store data for reused again for the samplers.

### Types of conf. elements?

- 1.csv data set conf.
- 2.http header manager
- 3.HTTP cookies manager
- 4.HTTP request manager
- 5.HTTP cache manager etc.



## 9. How to create a database test plan?

### Steps to follow-

#### Jmeter Beginner Tutorial 06 - How to create a Database Test Plan

Step 1 - Add mysql jdbc jar to Jmeter lib folder | Restart Jmeter

Step 2 - Add Thread Group

Step 3 - Add JDBC Conn Config | Provide the details of our DB

Step 4 - Add JDBC Request

Step 5 - Add Listeners

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Step 6 - Run and validate

### How practical we can implement-

The screenshot shows the JMeter interface with a green border around the central workspace. On the left, the 'Test Plan' tree view shows 'Thread Group' expanded, containing 'JDBC Connection Configuration', 'JDBC Request', 'View Results in Table', and 'View Results Tree'. The 'View Results Tree' node is selected. The main area is titled 'View Results Tree' with fields for 'Name' (set to 'View Results Tree'), 'Comments', and 'File name' (empty). Below these are search and filter options ('Search', 'Case sensitive', 'Regular exp.', 'Search', 'Reset'). A table titled 'JDBC Request' displays two rows of data:

ID	Name	Age	Country
1	Raghav	30	India
2	Tom	40	New Zealand

For creating a database in the server, we can use the link-

<https://db4free.net/>

#### Note:

On the developer Tool, we have Headers Tab- (under the Network Tab)

Example URL- <https://www.google.com/>

General

Response Header

Request Header

## JMeter Tool- GUI mode

## Command-Line - Non-Gui mode

How to run JMeter scripts in the command line/prompt?

Jmeter Beginner Tutorial 7 - How to run jmeter from Command Line (non GUI mode)

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### Why to execute non-gui mode ?

- gui consumes more resources / memory
- gui - not recommended for heavy load testing
- command line - can be integrated with other systems (Jenkins/CI ...)

Step 1 : Goto command line -> goto jmeter -> bin

Step 2 : command

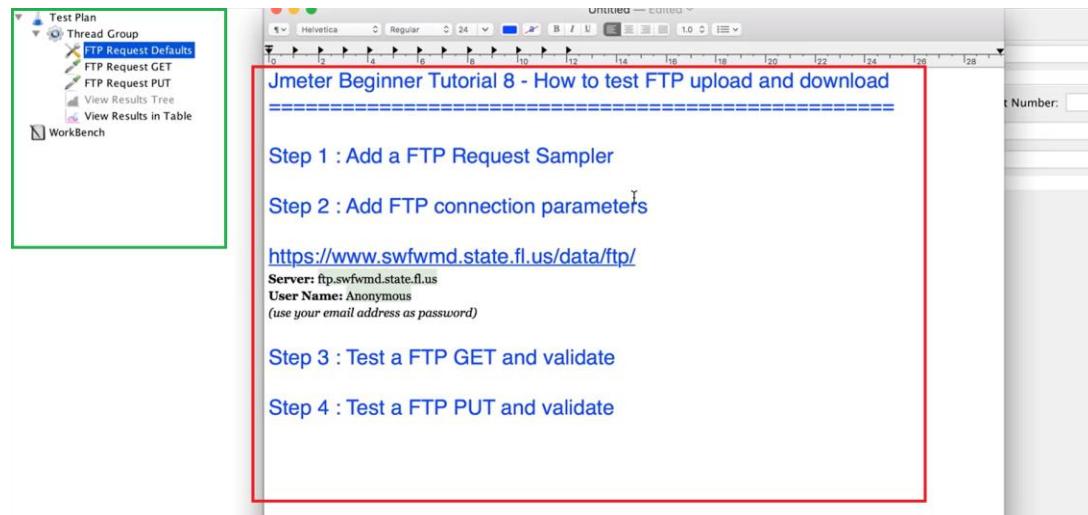
jmeter -n -t [location of your jmeter test script] -l [location of the result file]

- n -> non gui mode
- t -> location of jmeter script
- l -> loc

## 10. How to test FTP upload and download?

FTP- file transfer protocol

(Means we must transfer the data from the local system to the remote system)  
and we can also do the reverse process to check and validate.



## 11. How to use plugins manager?

Plugin- extension means adding a new feature to the JMeter tool for performing certain.  
New features

### **Advantages-**

Easy adding a new feature.

Hassle-free usage

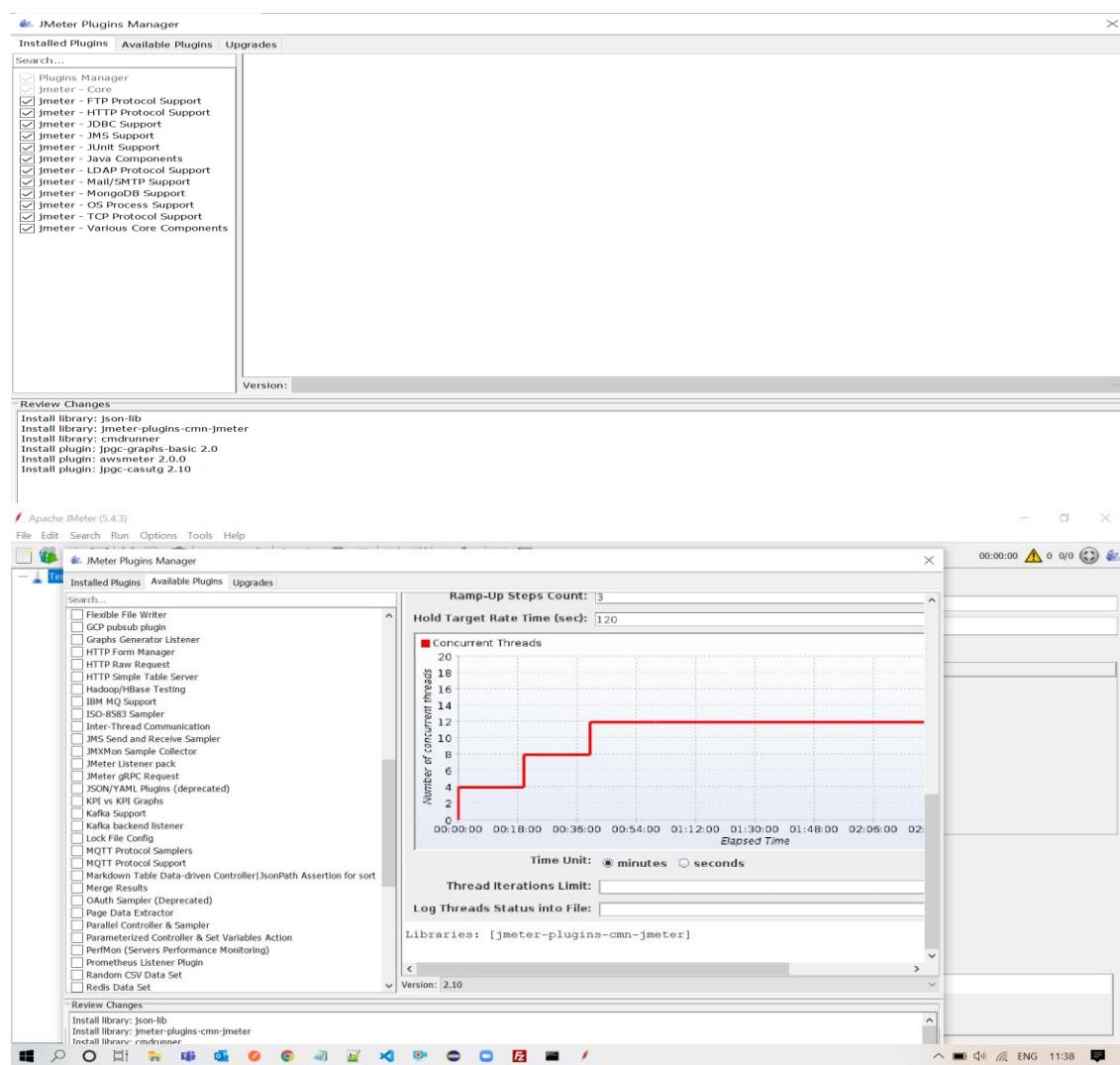
No need to add plugins manually.

### **Note:**

To access all the plugins in the JMeter Tool, we must use the link.

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

Download the jar file and paste it into the ext. folder- JMeter/lib/ext. Paste the jar file.



## **12. How to read data from CSV files? Parameterization?**

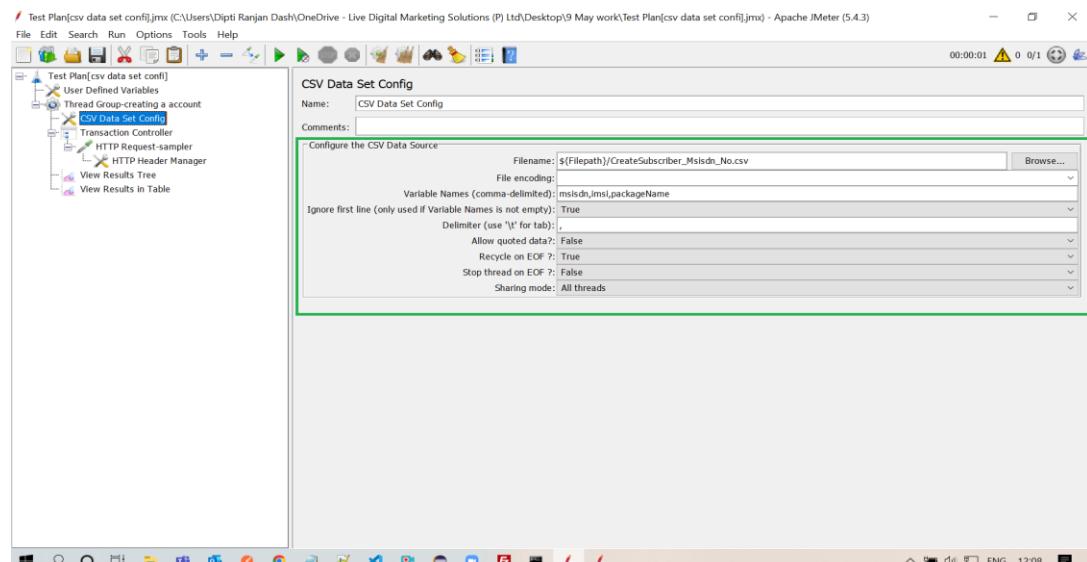
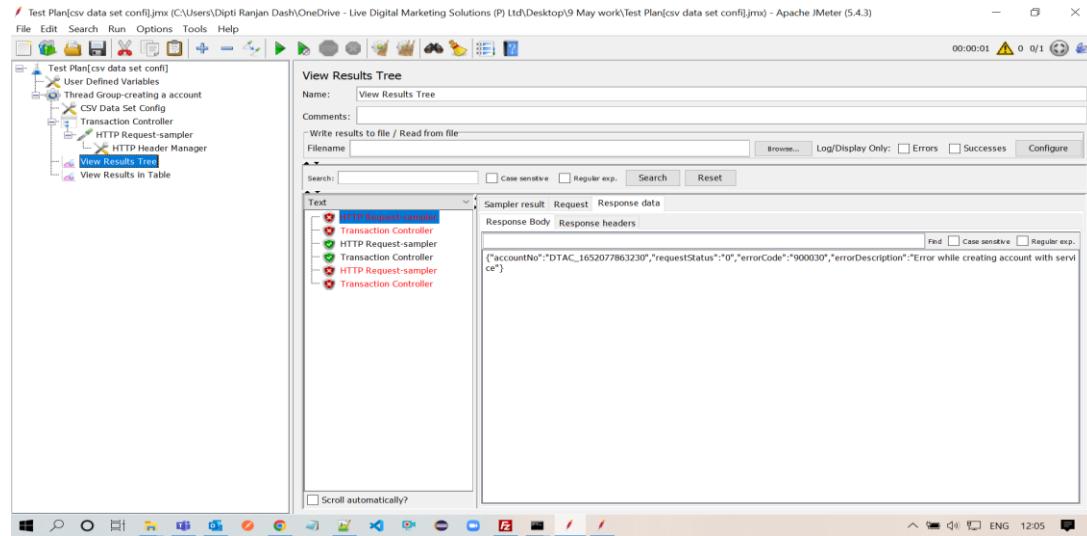
CSV data set configuration- To read data from the file [Data driven testing] we use this concept.

We can do parameters in two ways-

Internal parameter

## And External parameter

The external parameter can perform by using- the CSV data set config.



Understood all the features available inside the CSV data set config. Element.

(Practically practiced each bit-by-bit operation)

**Syntax parameterization - \${Variable\_name}**

### 13. What are functions and variables?

JMeter functions are special values that can populate fields of any Sampler or other element in a test tree. A function call looks like this: \${\_\_functionName(var1,var2,var3)} Where "\_\_functionName" matches the name of a function.

Variables- simply container which stores the data/value inside the variable for further calling/using it into the samplers.

Functions in Jmeter-

`__functionName(var1,var2,var3)` - with argument  
`__functionName` - without argument

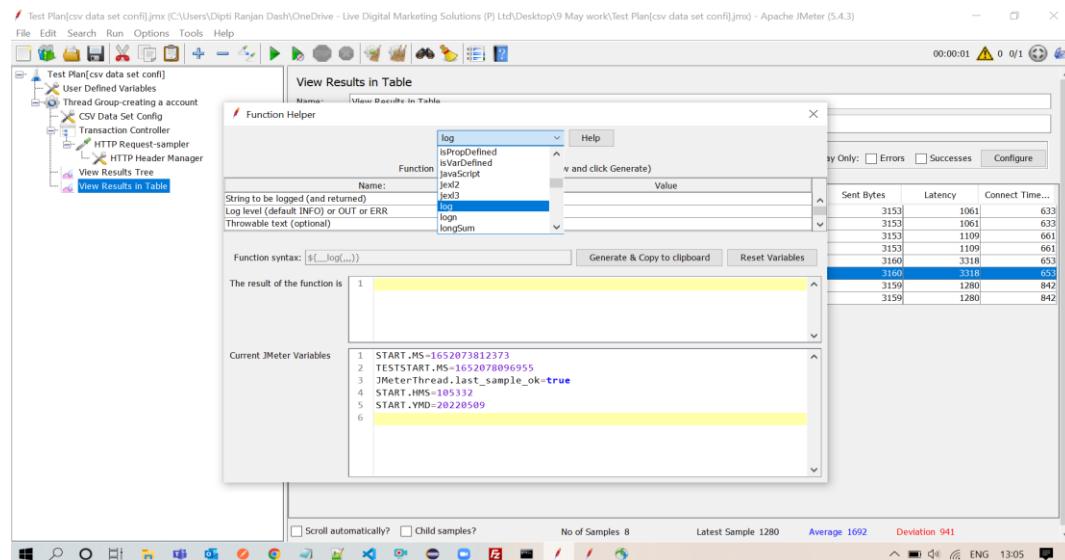
There are different types of functions available -

Link - <https://jmeter.apache.org/usermanual/functions.html>

#### Function Helper-

This will show the types of functions we have in the JMeter tool.

Variables In JMeter- syntax- `variable_name`



#### Theory Concept-

```
Jmeter Beginner Tutorial 14 - Functions and Variables
=====
functions : any method that can populate a field in any other element of a test plan
syntax : ${__functionName}
          ${__functionName(var1, var2, ....)}

variable : container that can store a value which can be referenced by any other
element within the thread. (local to a thread)
syntax : ${variableName}

function - caseSensitive | camelCasing

Functions:
-----
1. log - ${__log(
```

Functions-Types[syntax]

`__log("diptidash")`  
`__time("dd/mm/yyyy")`  
`__intSum(10,20)`

#### 14. How to set up realistic performance test- pacing?

To perform a real-time performance test, we must set up a stepping thread group plugin.

JMeter Beginner Tutorial 15 - How to setup realistic performance test - PACING

#### What is a real-world performance test

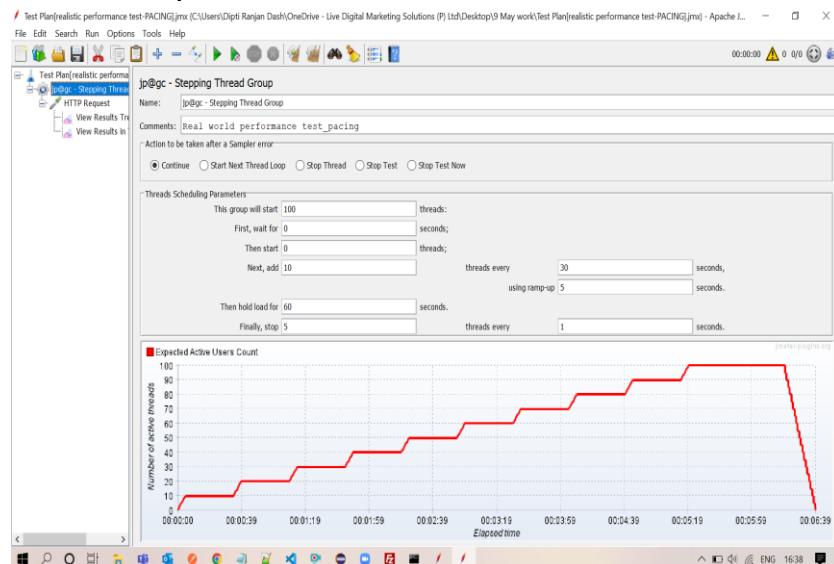
Think Time - simulate actual user actions with timings/delays

Pacing - controlled ramp-up and down of virtual users  
- control timing between iterations  
- achieve x iterations in y mins/sec

Add Plugin - Stepping Thread Group



### Practical concept-

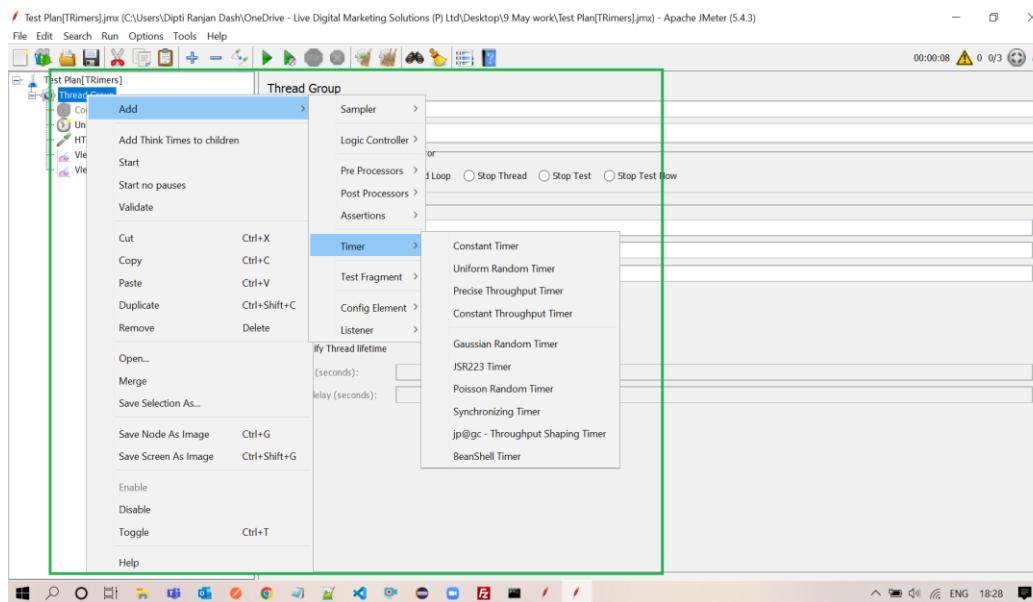
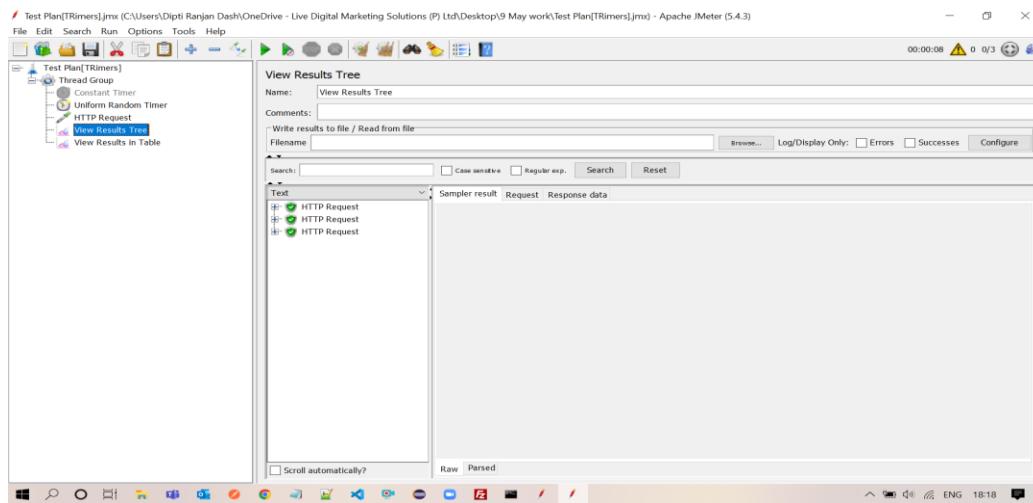


### What are timers and types of timers? How to add think time?

Timers = Time period [Timeout seconds]

Types of timers- [mostly used this timer in real time]

1. constant timer- fixed timer ex-1000/2000/3000 delay time.
2. uniform random timer- Dynamic time.



### How to parameterize the FTP test?

If we want to add a dynamic value from the CSV file each time of execution at that condition, we are going to use this scenario.

#### Steps to follow-

(To upload files with different names to FTP)

Step 1: add CSV Data Set Config

Step 2: Create a CSV file and provide its location in CSV Data Set Config

Step 3: parametrize FTP PUT request to take value from CSV file.

Step 4: Run and Validate

## Jmeter Beginner Tutorial 17 - How to parameterize FTP test

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(To upload files with different names to FTP)

Step 1 : add CSV Data Set Config

Step 2 : create a csv file and provide its location in CSV Data Set Config

Step 3 : parametrize FTP PUT request to take value from csv file

Step 4 : Run and Validate

## How to run scheduled and sequential execution in JMeter?

### HOW TO RUN A TEST FOR A SPECIFIC DURATION

Thread Group - Forever - Scheduler - Duration

### HOW TO RUN PERFORMANCE TESTS SEQUENTIALLY

Test Plan - Run Thread Group Consecutively

### HOW TO ADD WEBSITES SEQUENTIALLY TO A PERFORMANCE TEST

Thread Group - Forever - Scheduler - Duration + Startup Delay

### HOW TO RUN A TEST FOR A SPECIFIC DURATION

Thread Group - Forever - Scheduler - Duration

Step 1: Thread Group - make loop count = forever

Step 2: Select the Scheduler checkbox.

Step 3: Add duration (sec)

### HOW TO RUN PERFORMANCE TESTS SEQUENTIALLY

Test Plan - Run Thread Group Consecutively

Step 1: Test Plan - select Run Thread Groups consecutively.

### HOW TO ADD WEBSITES SEQUENTIALLY TO A PERFORMANCE TEST

Thread Group - Forever - Scheduler - Duration + Startup Delay

Step 1: Add duration (max) to first thread group - 30 sec.

Step 2: To consecutive thread, groups add delay.

example (for a 30 sec test plan):

1st Thread Group: delay = 0 sec | duration = max duration of the test = 30 sec

2nd Thread Group: delay = 10 sec | duration = max - delay = 30 - 10 = 20 sec

3rd Thread Group: delay = 20 sec | duration = max - delay = 30 - 20 = 10 sec

**What is correlation? Why is it required? What is a regular expression extractor?**

Regular expression extractor-

Syntax- <a href="(.\*?)">

We can use the Regex.com website for the regex concept.

Link- <https://regexr.com/>

Else we can also select Regex Tester- for creating expression within the response data itself for verification.

**Note:**

Regex is easy for creating the expression syntax for the sampler.

## What is Correlation :

• • •

The process of extracting some value from the response of a step and referring it into the request of other subsequent step is called correlation.

(Referencing is done dynamically - at runtime)

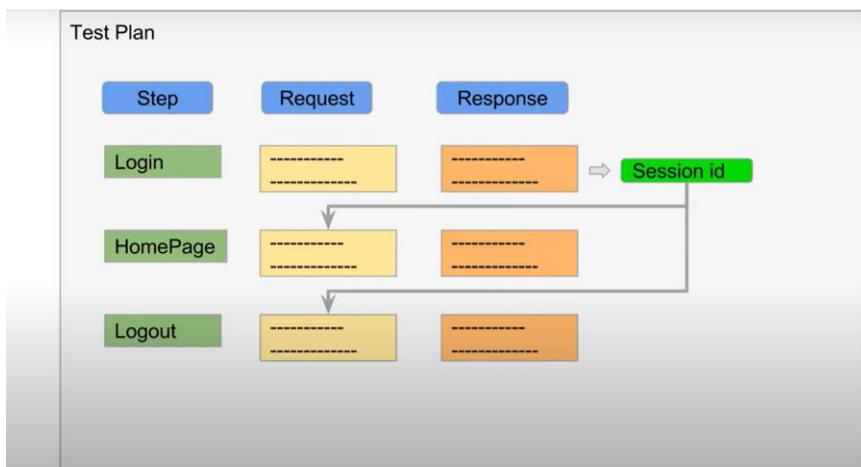
## What is Correlation :

• • •

Extract dynamic value from the response of a step



Refer the extracted value in the request of a subsequent step



**Showing how the session id is linked to each other [requests]**

#### Practical screenshots-

This screenshot shows the Apache JMeter interface during a test run. The top status bar indicates "00:00:02" and "0 / 0 / 2". The left sidebar shows a tree structure of the test plan, including a Thread Group with four HTTP Request samplers and a Regular Expression Extractor. The main area is divided into two panels: "View Results Tree" and "RegEx Tester". The "View Results Tree" panel shows a table of results with columns for Rank, Thread Name, Response Time, and Status. The "RegEx Tester" panel displays the HTML content of a response from the first HTTP Request. A regular expression is defined at the bottom of this panel: "Regular expression: <a href="(.\*?)>"

# What are JMeter Templates

Reusable project scripts

User can select any template and it will generate a Test Plan with basic and necessary components

## 1. What are JMeter Templates

Reusable project scripts  
Users can select any template and it will generate a Test Plan with basic and necessary components.

## 2. How to use Templates

File - Templates - select a template and start building over it.

## 3. How to create your own Template

Step 1: save your test plan as a .jmx file.

Step 2: place the .jmx inside JMeter/bin/templates

Step 3: edit the templates.xml file to add your template.

Step 4: restart JMeter and check

```
templates.xml template
isTestPlan="true"  : template will create a new test plan
isTestPlan="false" : templat will be merged into existing test plan
name : Name of the template
fileName : location of .jmx file
description : description will be displayed in html
```

## How to Create Your Own Templates:

### templates.xml

#### <template>

isTestPlan="true" : template will create a new test plan  
isTestPlan="false" : template will be merged into existing test plan

<name> : Name of the template

<fileName> : location of .jmx file

<description> : description will be displayed in html

#### Practical -

##### How to test file upload?

1. How to create a test for file upload
2. How to record test for file upload

##### 1. How to create a test for File Upload

Step 1: Create a Test Plan - Thread Group - HTTP Request

Step 2: Add values in the HTTP Request sampler.

Step 3: Add File Upload details.

Step 4: Add Listeners to view results.

Step 5: Run and Validate

##### 2. How to record test for File Upload

Step 1: Add Template - Recording

Step 2: Provide a port number (e.g., 8181)

Step 3: Set the browser to listen to this port.

Step 4: Start Recording

Step 5: Filter the samples you need from recorded samples.

Step 6: Run and Validate

**Helping Tips:**

*In case you face any issues*

*Check the following:*

In case you face any issues in recording the scenario...

Watch:

<https://youtu.be/amEHuq8auTU?list=PLh...>

References:

<http://www.tinyupload.com/>

<http://www.freeformatter.com/mime-type.html>

**How to test file download?**

**1. How to create a test for file download**

- Add Thread Group - HTTP Request sampler.
- Add values in the HTTP Request sampler.
- Add Listeners to view results.
- Add Listener - Save Responses to a file.
- Add values to this Listener.
- Run and Validate

**Helpful Tips:**

How to avoid overwriting downloaded files.

in a multi-user test

Use function: \${\_\_threadNum} as Prefix.

References:

<ftp://speedtest.tele2.net/>

## How to debug in JMeter?

1. How to debug and fix errors
2. How to use Debug Sampler

Step 1 : Analyse with Listener - View Results Tree

Step 2 : Analyse information in Log Viewer

Step 3 : Add Listener - Debug Sampler

## Helpful Tips

How to use Debug PostProcessor

Enable Debug for elements.

Using external plugins for Debugging

References:

How to use Plugin Manager:

<https://youtu.be/KQfoBOK37ms?list=PLh...>

## JMeter Script Run in CLI Testing JMeter scripts in the command prompt-| | Command Line Interface [CLI]

### How to run JMeter from command line?

**command-** jmeter -n -t "location-path of jmeter script file" -l "location-outputfolder-path"

- -n (non-gui mode)
- -t (location of test script file)
- -l (report/output file location)

### Examples:

Examples:

jmeter -n -t "C:\Jmeter\_Scripts\ASAPSTCNE\ASAP\ASAP\ASAP\_Demo\_Scenarios\_12thJan.jmx" -l "C:\ASAP\_Scripts\ASAPSTCNE\ASAP\ASAP\csv\Report.csv" (without Html)

jmeter -n -t "C:\ASAP\_Scripts\ASAPSTCNE\ASAP\ASAP\ASAP\_Demo\_Scenarios\_12thJan.jmx" -l "C:\ASAP\_Scripts\ASAPSTCNE\ASAP\ASAP\csv\Report.csv" -e -o "C:\ASAP\_Scripts\ASAPSTCNE\ASAP\ASAP\Html" (with Html)

Apache JMeter 5.5 version:

we can use this command simply to run scripts in CLI mode- [To capture the csv and html file]

jmeter -n -t "C:\DTAC\_Scripts\DTACSTCNE\DTAC\DTAC\_Demo\_Scenarios\_12thJan.jmx" -l "C:\DTAC\_Scripts\DTACSTCNE\DTAC\csv\Report.csv" -e -o "C:\DTAC\_Scripts\DTACSTCNE\DTAC\DTAC\Html"

Apache JMeter 5.4.3 version

using this command-

jmeter -n -t "C:\DTAC\_Scripts\DTACSTCNE\DTAC\DTAC\_Demo\_Scenarios\_12thJan.jmx" -l "C:\DTAC\_Scripts\DTACSTCNE\DTAC\DTAC\csv\Report.csv" -e -o "C:\DTAC\_Scripts\DTACSTCNE\DTAC\DTAC\Html"

we can only be able to see the successful result for threads in the FrontEnd side.

**Note:**

we can capture the CSV file [sometimes captured info. sometimes not]  
we cannot capture the Html file directly.

**(workaround)**

we can capture the CSV file by using JMeter 5.4.3V but not able to capture HTML so in -order to do this we can go for Apache JMeter 5.5 version under the bin folder paste the HTML (folder) and CSV which was taken by JMeter 5.4.3 version on executing.

**And use this command- (only on JMeter 5.5 version)**

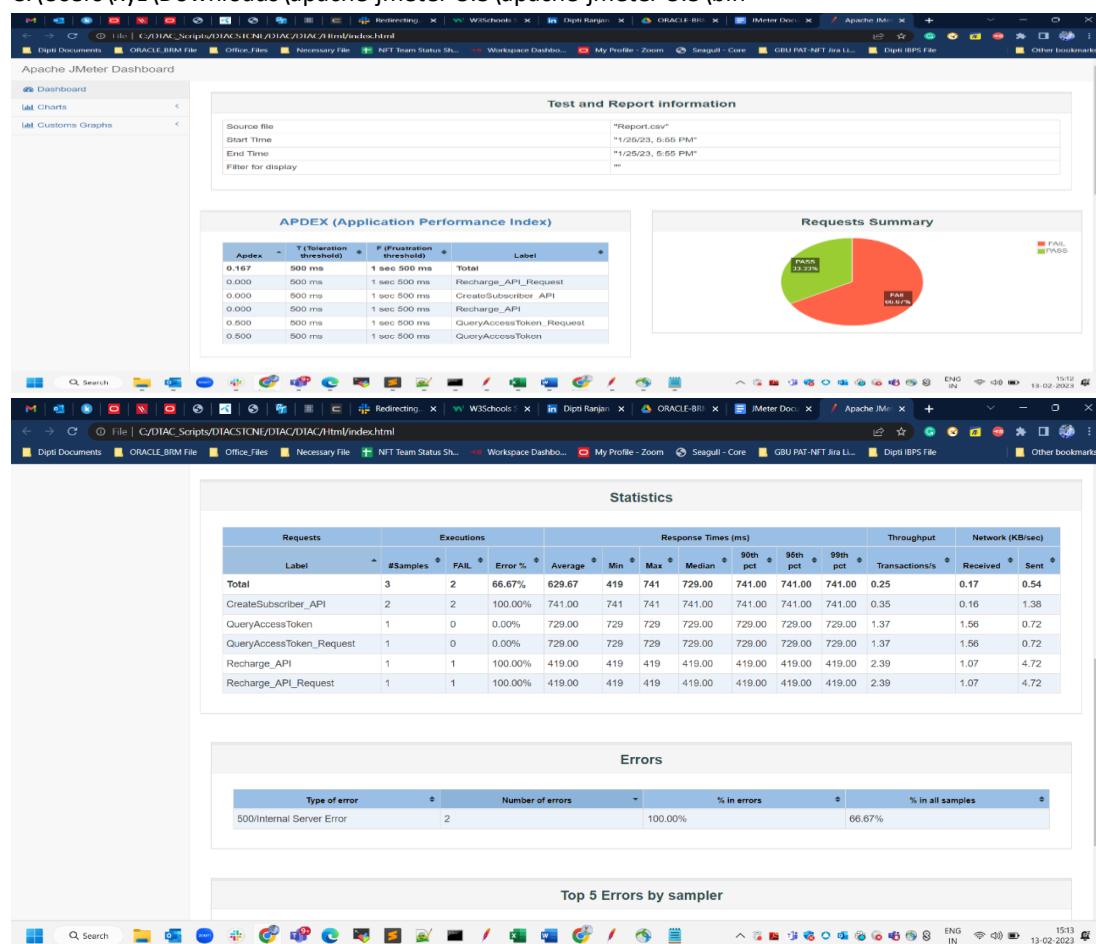
To capture the HTML report in the web.

use this command- JMeter -g Report.csv -o Html.

**Point to remember always run all these commands only in- (bin directory)**

**Example-**

C:\Users\xyz\Downloads\apache-jmeter-5.5\apache-jmeter-5.5\bin>



# Cheatography

## HTTP Status Codes Cheat Sheet

by kstep via [cheatography.com/424/cs/199/](http://cheatography.com/424/cs/199/)

### 1xx: HTTP informational Codes

- 100 Continue
- 101 Switching Protocols
- 102 Processing WebDAV
- 103 Checkpoint<sup>draft</sup> POST PUT
- 122 Request-URI too long<sup>IE7</sup>

### 2xx: HTTP Successful Codes

- 200 OK
- 201 Created
- 202 Accepted
- 203 Non-Authoritative Information 1.1
- 204 No Content
- 205 Reset Content
- 206 Partial Content
- 207 Multi-Status WebDAV 4918
- 208 Already Reported WebDAV 5842
- 226 IM Used 3229 GET

### 3xx: HTTP Redirection Codes

- 300 Multiple Choices
- 301 Moved Permanently
- 302 Found
- 303 See Other 1.1
- 304 Not Modified
- 305 Use Proxy 1.1
- 306 Switch Proxy<sup>unused</sup>
- 307 Temporary Redirect 1.1
- 308 Permanent Redirect 7538

307 and 308 are similar to 302 and 301, but the new request method after redirect must be the same, as on initial request.

### 4xx: HTTP Client Error Code

- 400 Bad Request
- 401 Unauthorized
- 402 Payment Required<sup>res</sup>
- 403 Forbidden
- 404 Not Found
- 405 Method Not Allowed
- 406 Not Acceptable
- 407 Proxy Authentication Required
- 408 Request Timeout
- 409 Conflict
- 410 Gone
- 411 Length Required
- 412 Precondition Failed
- 413 Request Entity Too Large
- 414 Request-URI Too Long
- 415 Unsupported Media Type
- 416 Requested Range Not Satisfiable
- 417 Expectation Failed
- 418 I'm a teapot<sup>2324</sup>
- 422 Unprocessable Entity WebDAV 4918
- 423 Locked WebDAV 4918
- 424 Failed Dependency WebDAV 4918
- 425 Unordered Collection 3548
- 426 Upgrade Required 2817
- 428 Precondition Required<sup>draft</sup>
- 429 Too Many Requests<sup>draft</sup>
- 431 Request Header Fields Too Large<sup>draft</sup>
- 444 No Response<sup>nginx</sup>
- 449 Retry With<sup>MS</sup>
- 450 Blocked By Windows Parental Controls<sup>MS</sup>
- 451Unavailable For Legal Reasons<sup>draft</sup>
- 499 Client Closed Request<sup>nginx</sup>

### 5xx: HTTP Server Error Codes

- 500 Internal Server Error
- 501 Not Implemented
- 502 Bad Gateway
- 503 Service Unavailable
- 504 Gateway Timeout
- 505 HTTP Version Not Supported
- 506 Variant Also Negotiates 2295
- 507 Insufficient Storage WebDAV 4918
- 508 Loop Detected WebDAV 5842
- 509 Bandwidth Limit Exceeded<sup>nostd</sup>
- 510 Not Extended<sup>2774</sup>
- 511 Network Authentication Required<sup>draft</sup>
- 598 Network read timeout error<sup>nostd</sup>
- 599 Network connect timeout error<sup>nostd</sup>

### HTTP Code Comments

WebDAV	WebDAV extension
1.1	HTTP/1.1
GET, POST, PUT, POST	For these methods only
IE	IE extension
MS	MS extension
nginx	nginx extension
2518, 2817, 2295, 2774, 3229, 4918, 5842	RFC number
draft	Proposed draft
nostd	Non standard extension
res	Reserved for future use
unused	No more in use, deprecated
Wikipedia was used to produce all HTTP codes content:	
<a href="http://en.wikipedia.org/wiki/HTTP_status">http://en.wikipedia.org/wiki/HTTP_status</a>	

### Quick Links to Learn-

[https://www.youtube.com/watch?v=M-iAXz8vs48&list=PLyZDoc-Wc-9xCAkzVYDOxB\\_f4RE\\_MkPUM](https://www.youtube.com/watch?v=M-iAXz8vs48&list=PLyZDoc-Wc-9xCAkzVYDOxB_f4RE_MkPUM)

[https://www.youtube.com/watch?v=817zU\\_bXh9Y&list=PLUDwpEzHYYLs33uFHeIJo-6eU92loIMZ7](https://www.youtube.com/watch?v=817zU_bXh9Y&list=PLUDwpEzHYYLs33uFHeIJo-6eU92loIMZ7)

Apache JMETER Documentation- <https://jmeter.apache.org/usermanual/index.html>

THE END