Assignment No 3

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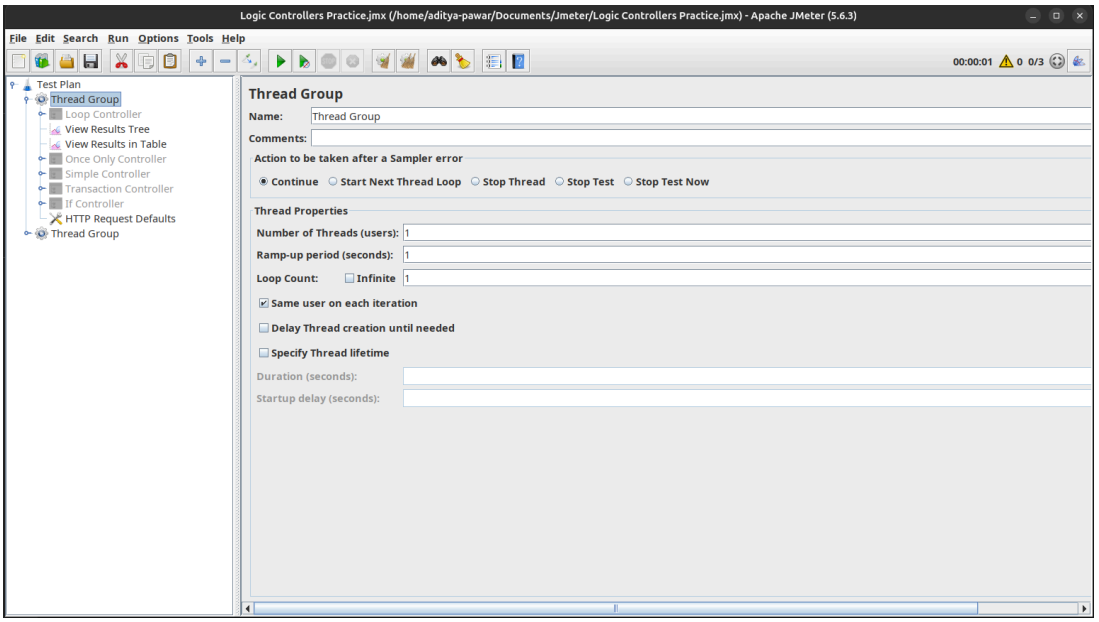
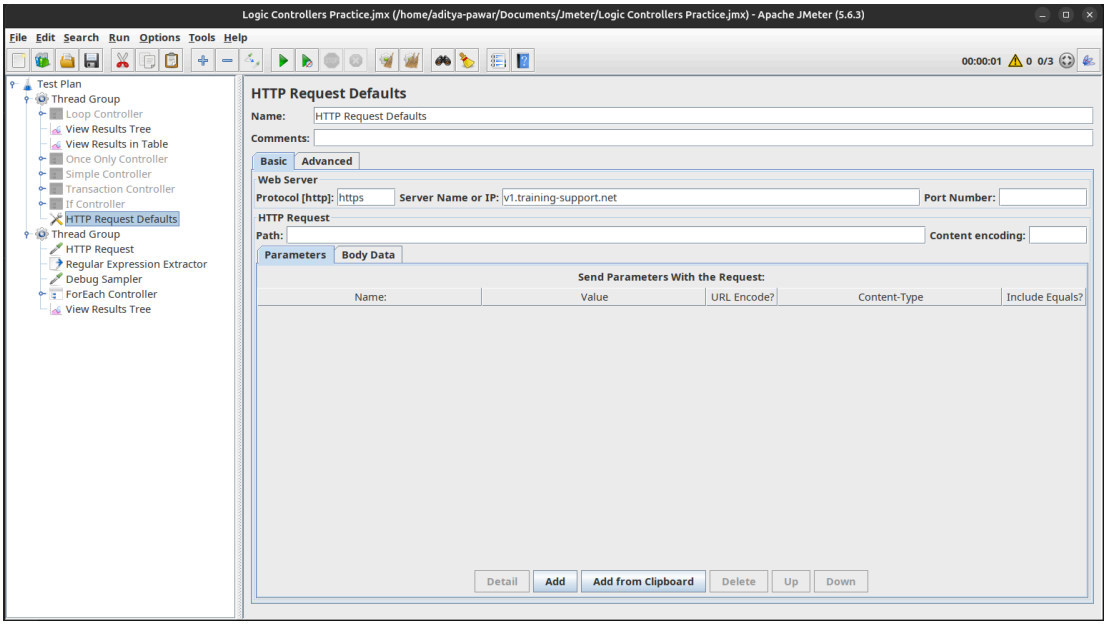
Logic Controllers

Logic Controllers in JMeter define the **execution flow** of requests and samplers in a Thread Group. They do not send requests themselves but decide **when, how many times, and in what sequence** samplers should run.

- Add the Basic files for implementing the Logic Controllers
  1. Add the Thread Group with these basic details

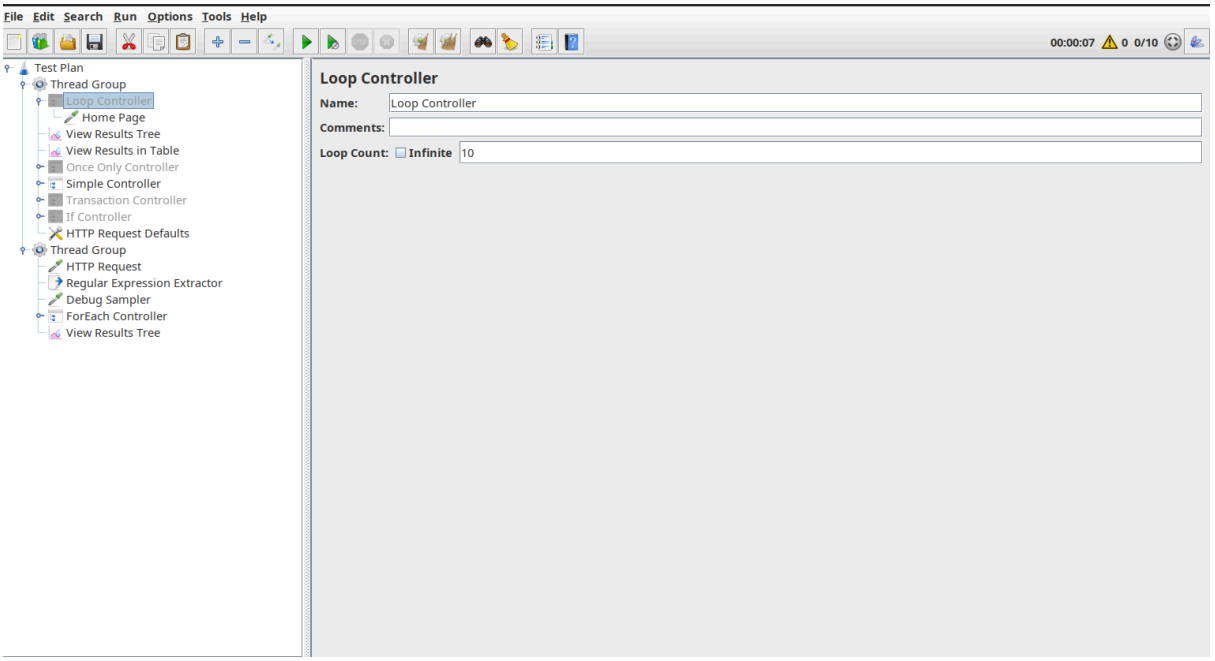


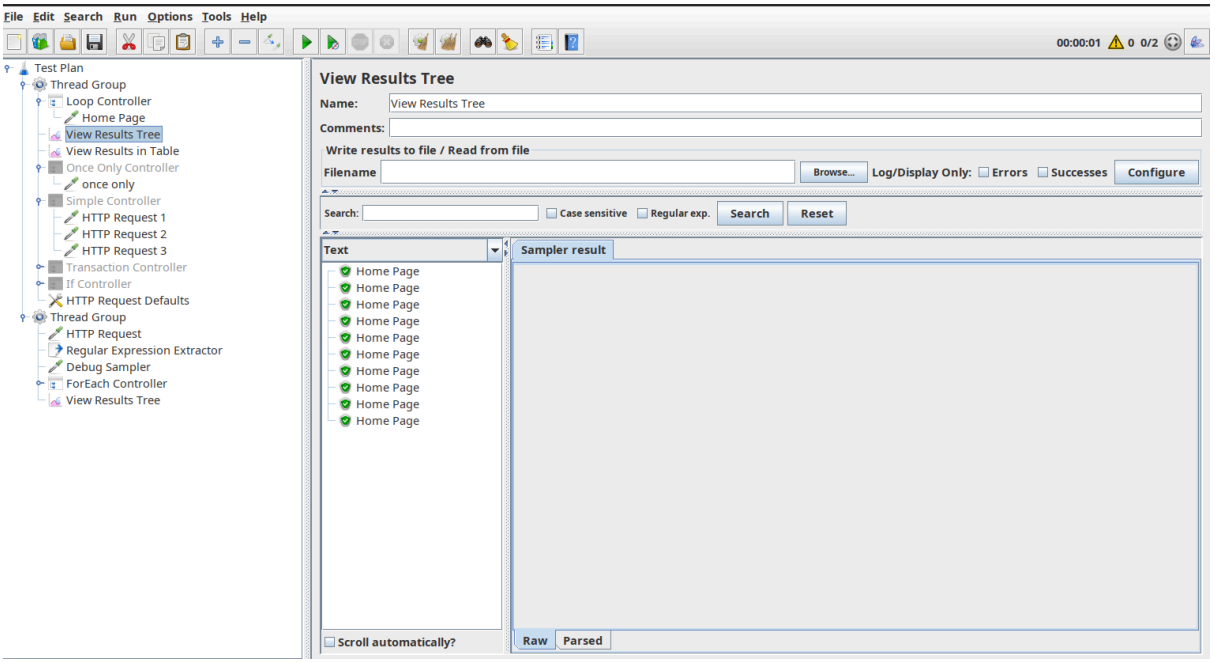
  2. Add HTTP Request Default Config element



1. Loop Controller

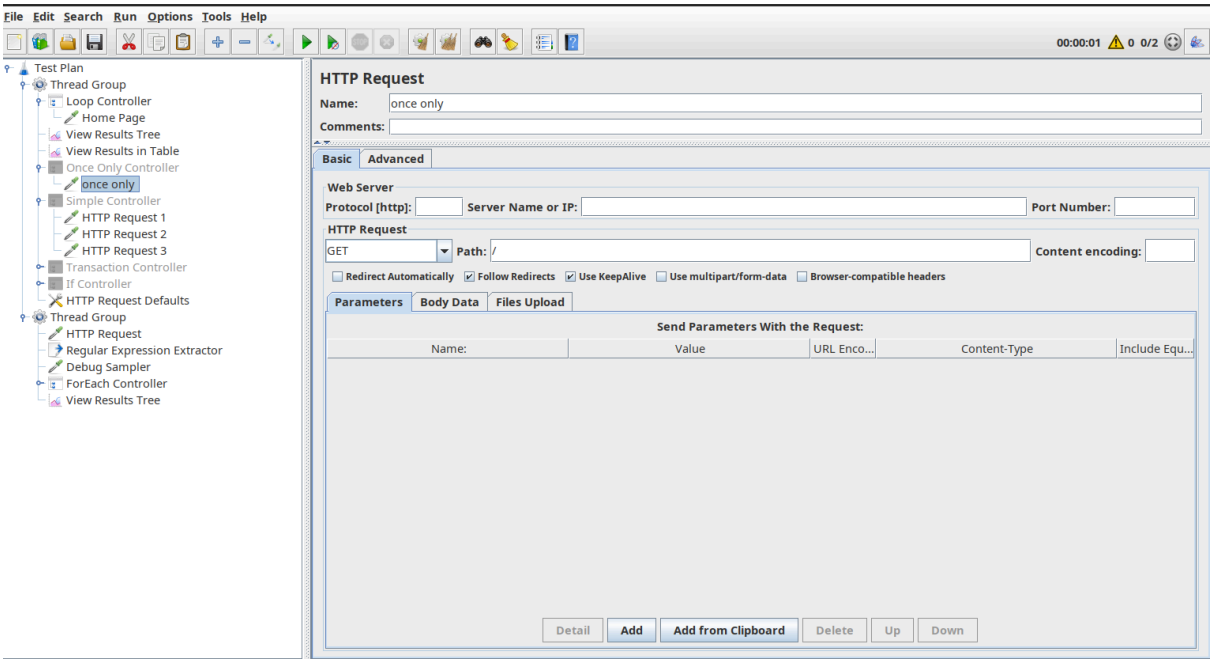
- **Loop Controller** in JMeter is used to **run its child samplers a specified number of times or indefinitely** within a test plan.

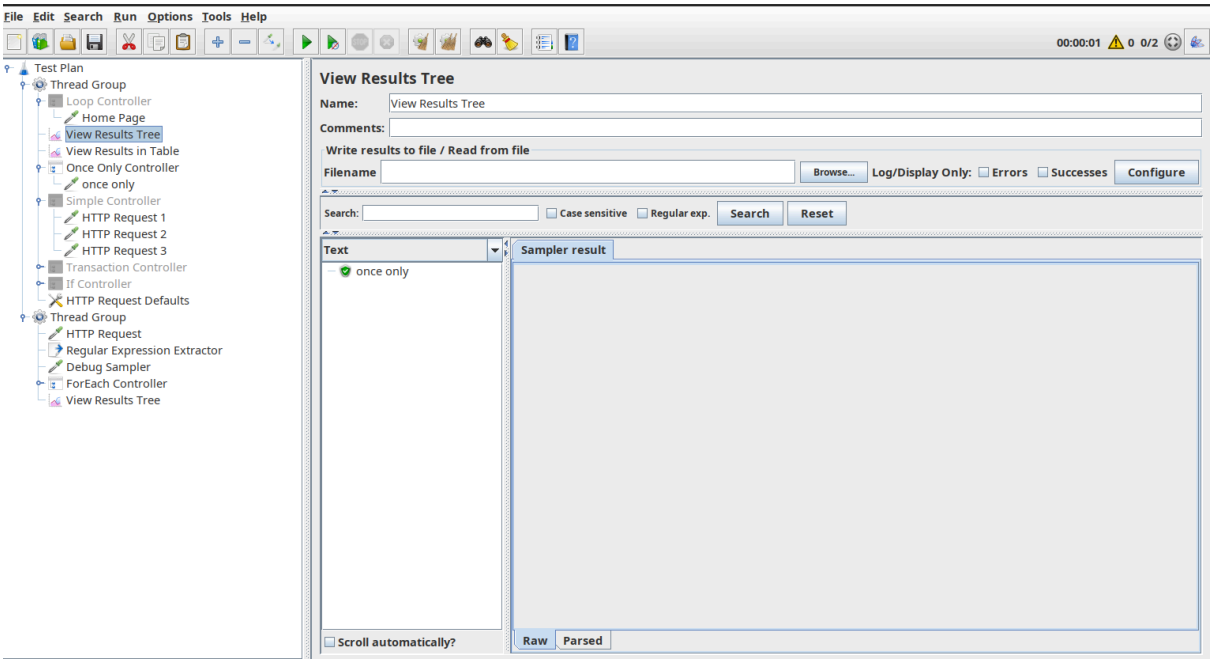




2. Only once Controller

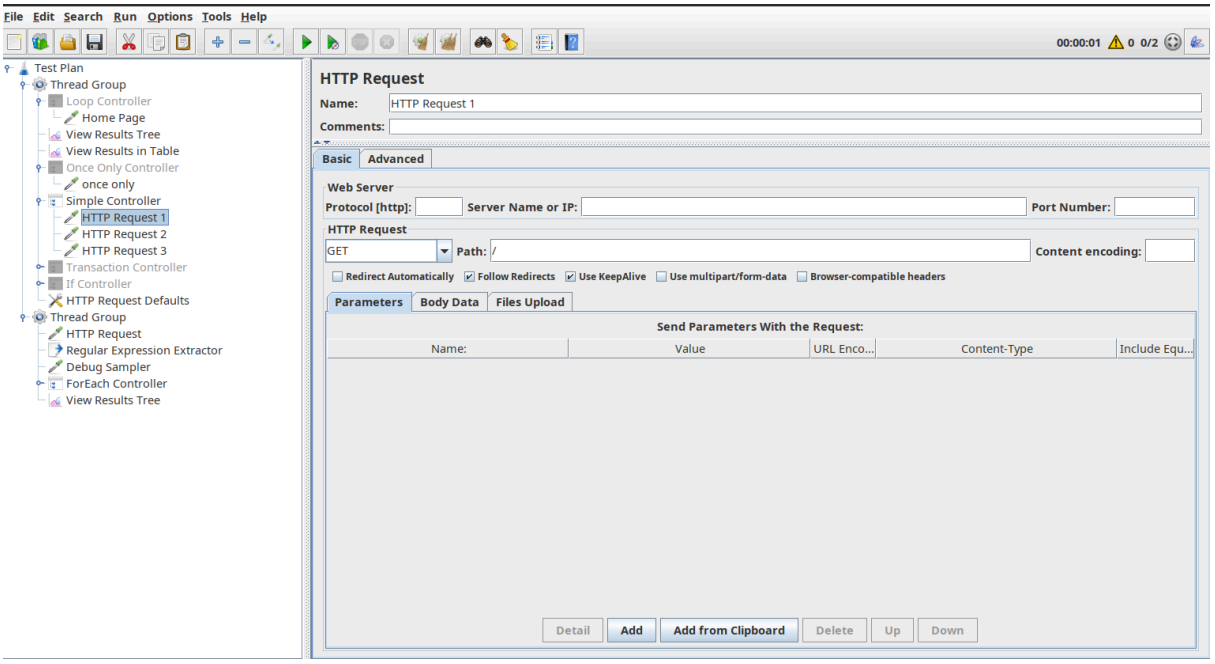
- **Only Once Controller** in JMeter is used to **ensure its child samplers execute only a single time per thread, regardless of the loop iterations in the test plan.**

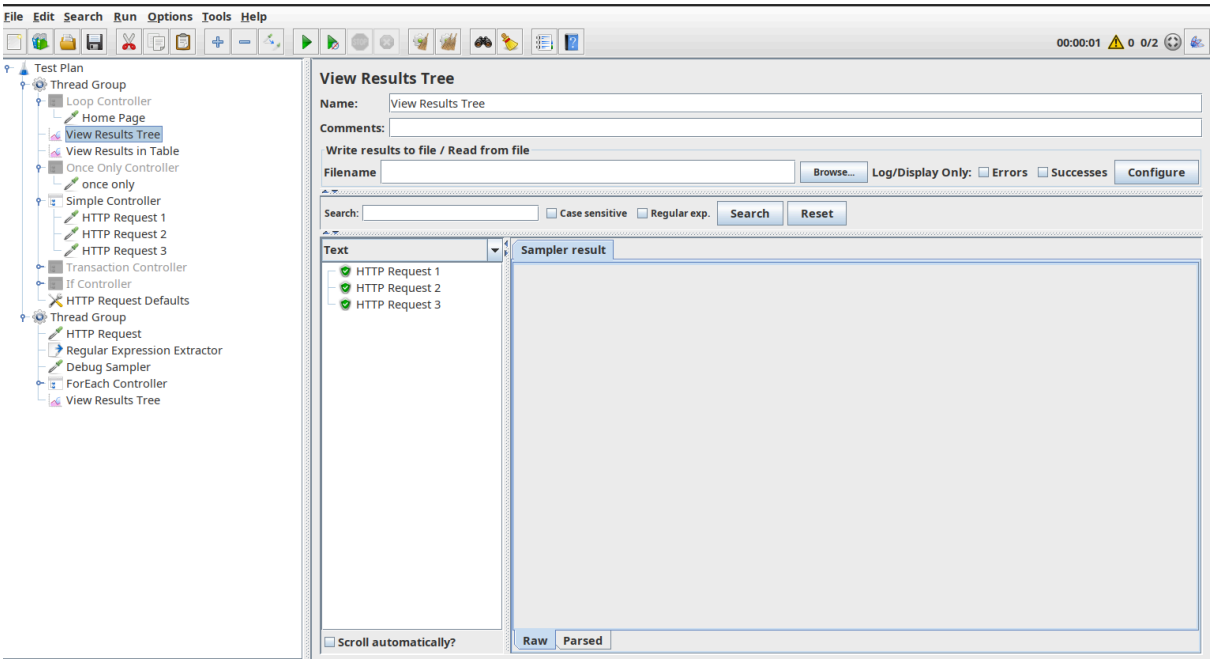




3. Simple Controller

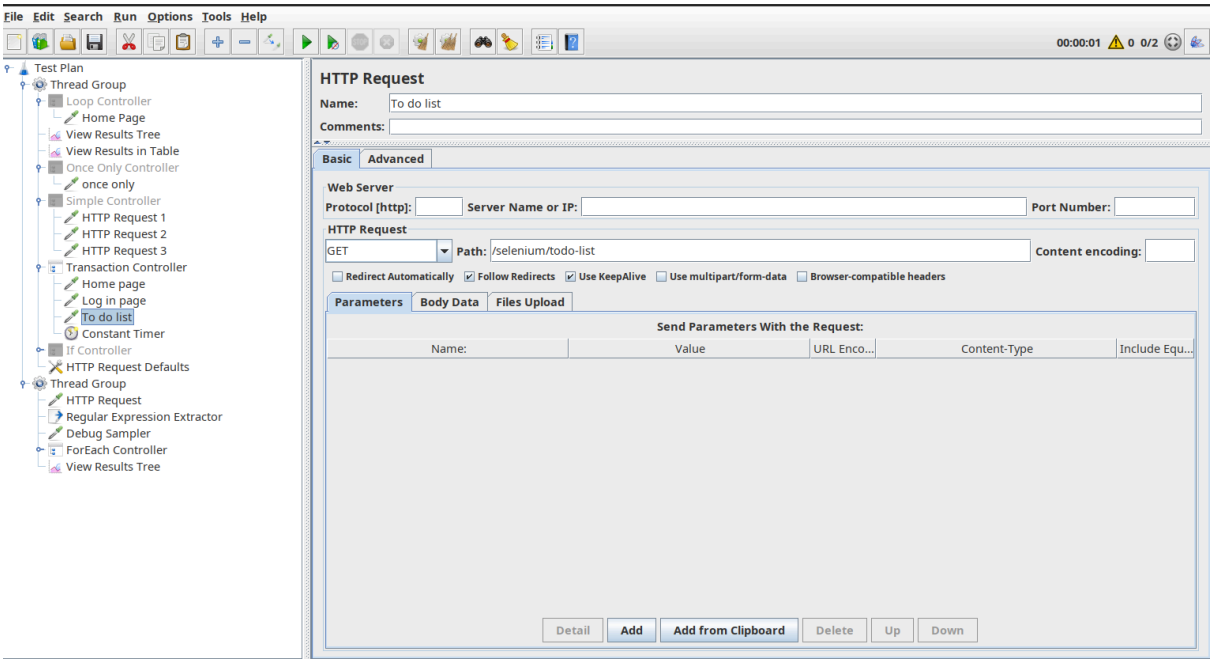
- **Simple Controller** in JMeter is used to **organize and group samplers or other elements together without affecting their execution behavior.**

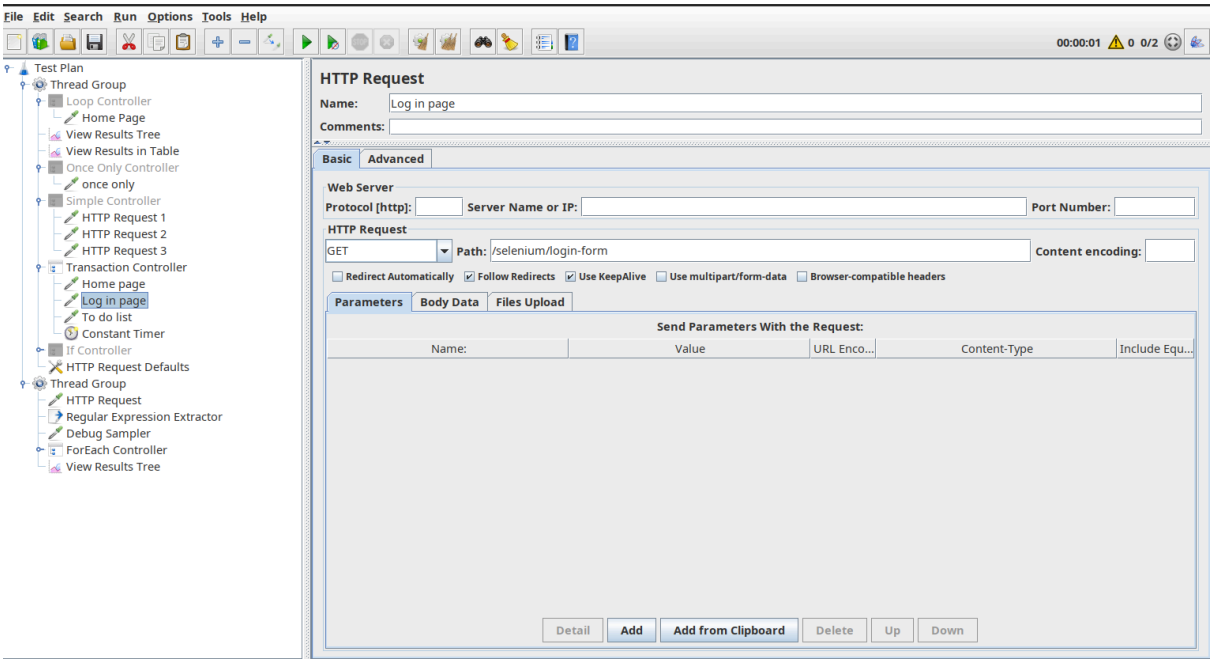


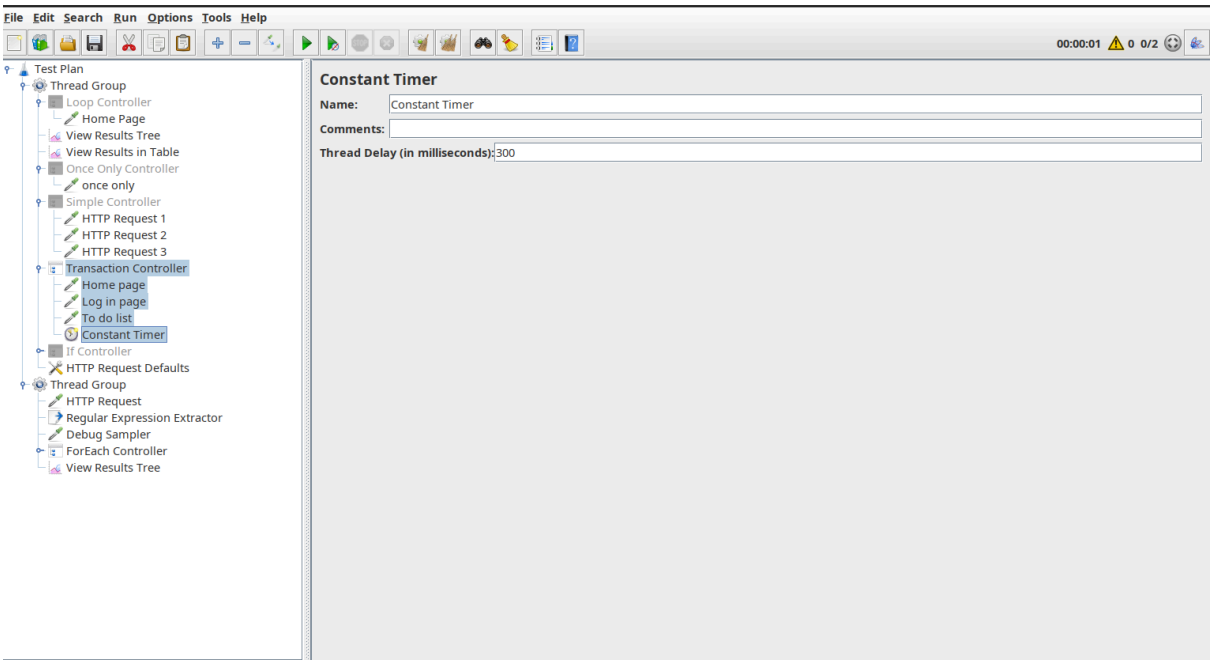


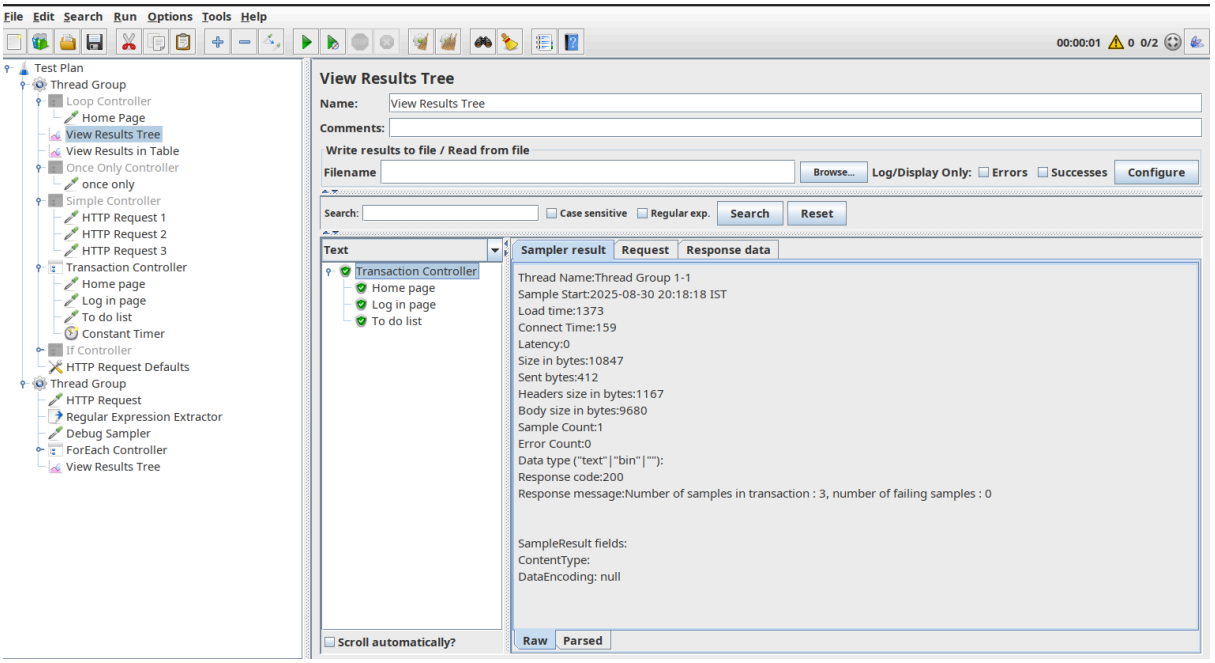
4. Transaction Controller

- **Transaction Controller** in JMeter is used to **measure the overall time taken to execute a group of samplers as a single transaction.**



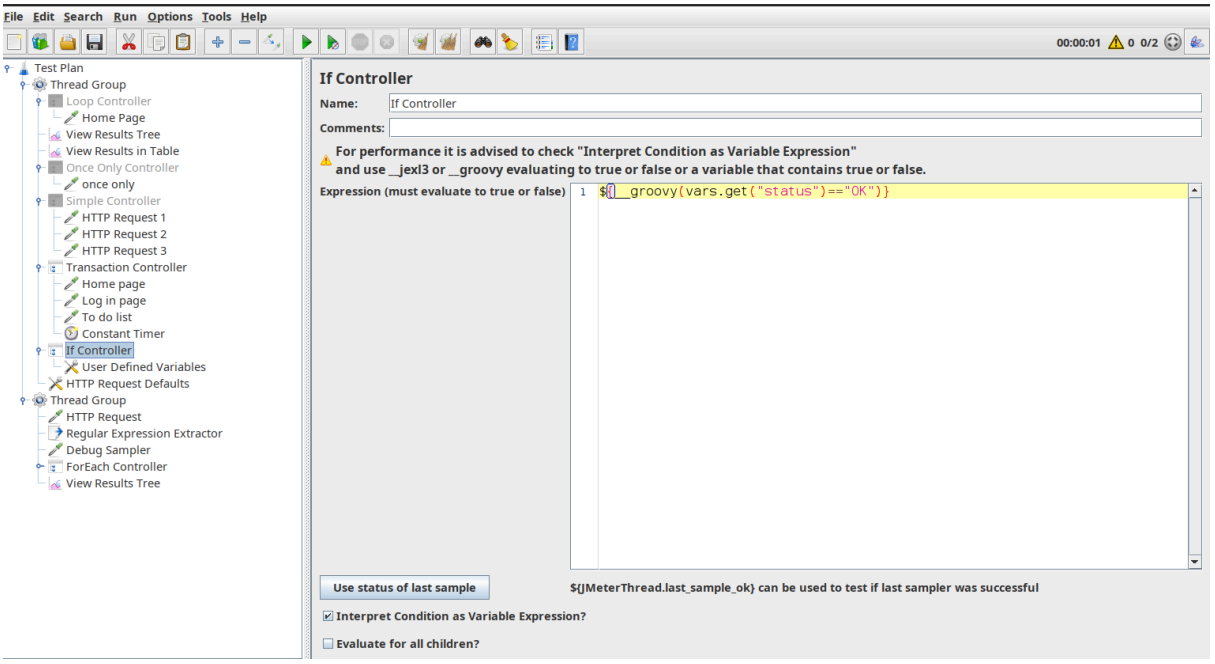

File Edit Search Run Options Tools Help
00:00:01 0 0/2
Test Plan
Thread Group
Loop Controller
Home Page
View Results Tree
View Results in Table
Once Only Controller
once only
Simple Controller
HTTP Request 1
HTTP Request 2
HTTP Request 3
Transaction Controller
Home page
Log in page
To do list
Constant Timer
If Controller
HTTP Request Defaults
Thread Group
HTTP Request
Regular Expression Extractor
Debug Sampler
ForEach Controller
View Results Tree
HTTP Request
Name: Log in page
Comments:
Basic
Advanced
Web Server
Protocol [http]:
Server Name or IP:
Port Number:
HTTP Request
GET
Path: /selenium/login-form
Content encoding:
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data
Browser-compatible headers
Parameters
Body Data
Files Upload
Send Parameters With the Request:
Name:
Value
URL Enco...
Content-Type
Include Equ...
Detail
Add
Add from Clipboard
Delete
Up
Down

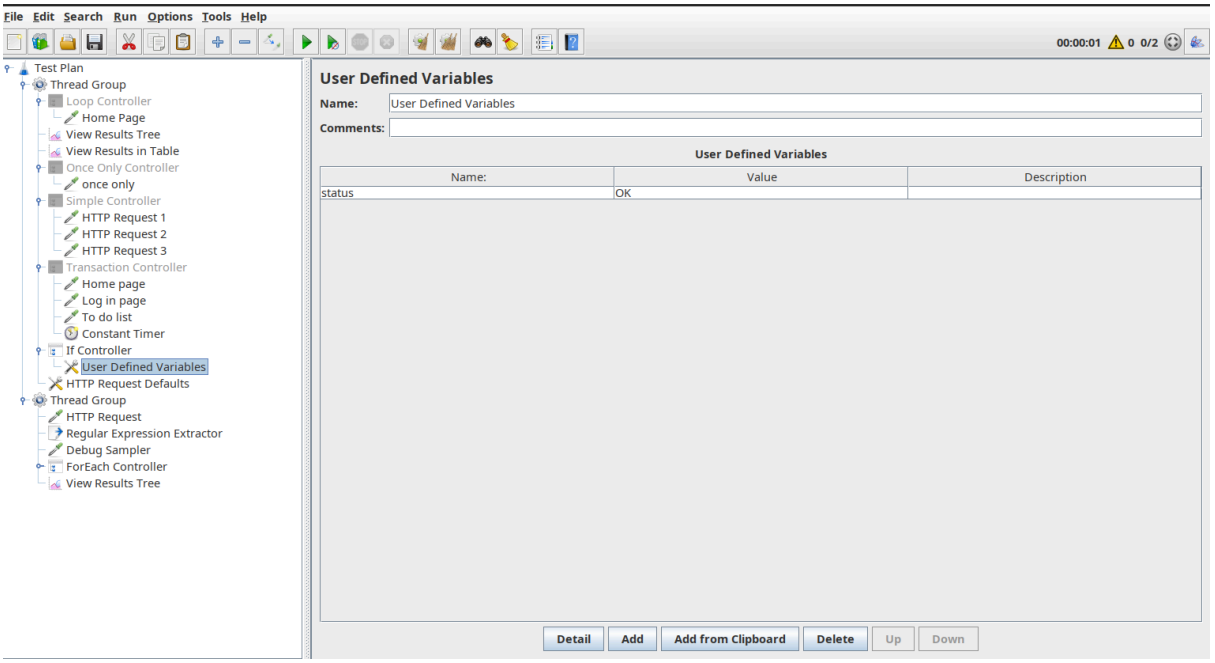

File Edit Search Run Options Tools Help
00:00:01 0 0/2
Test Plan
Thread Group
Loop Controller
Home Page
View Results Tree
View Results in Table
Once Only Controller
once only
Simple Controller
HTTP Request 1
HTTP Request 2
HTTP Request 3
Transaction Controller
Home page
Log in page
To do list
Constant Timer
If Controller
HTTP Request Defaults
Thread Group
HTTP Request
Regular Expression Extractor
Debug Sampler
ForEach Controller
View Results Tree
Constant Timer
Name: Constant Timer
Comments:
Thread Delay (in milliseconds): 300

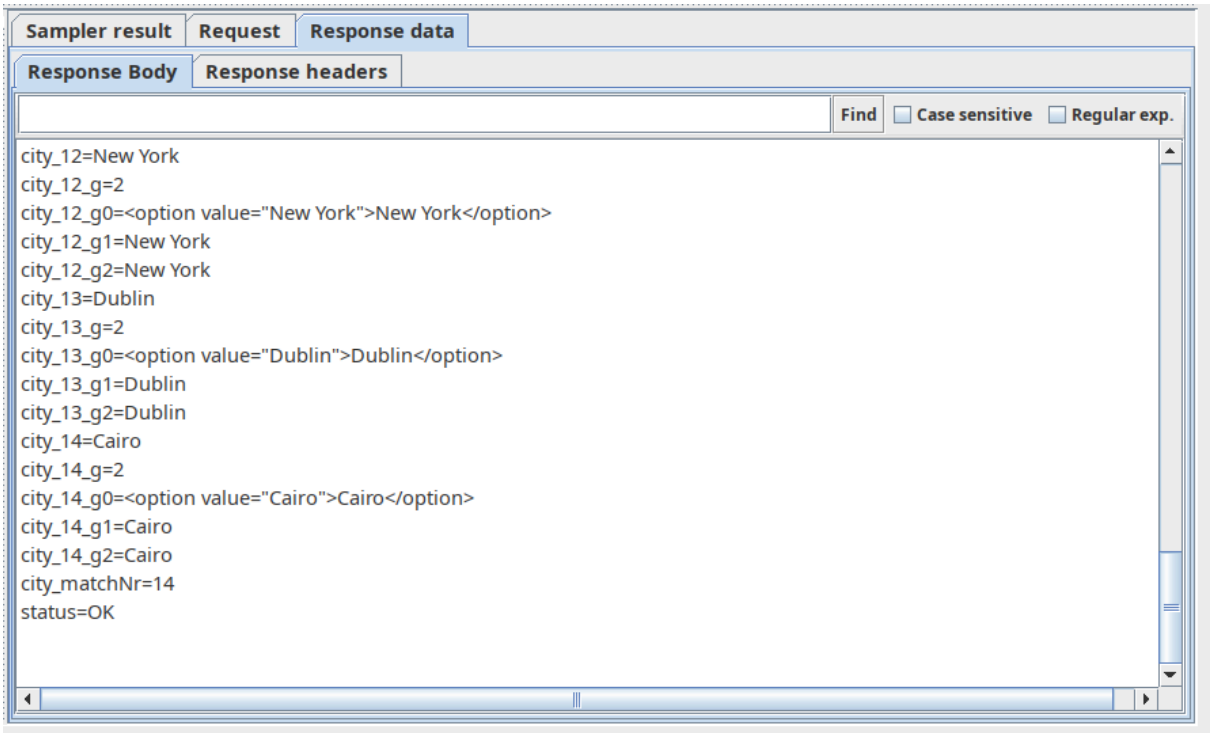


5. IF Controller

- **If Controller** in JMeter is used to **execute its child samplers only when a given condition evaluates to true.**

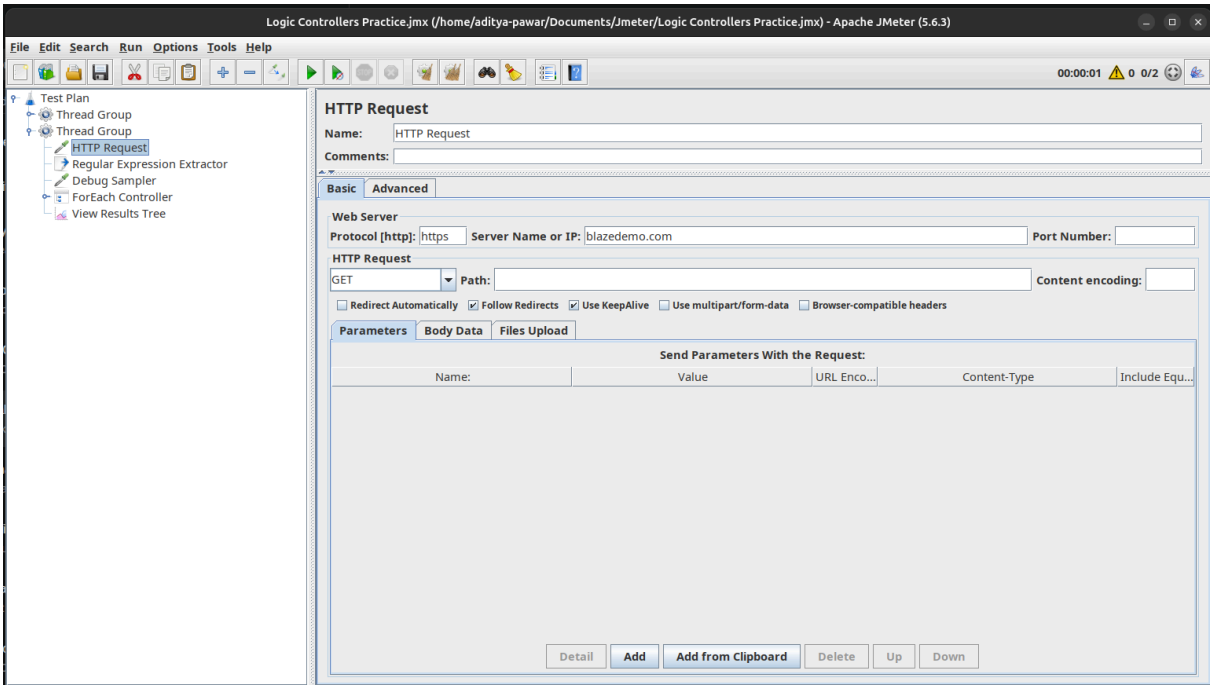


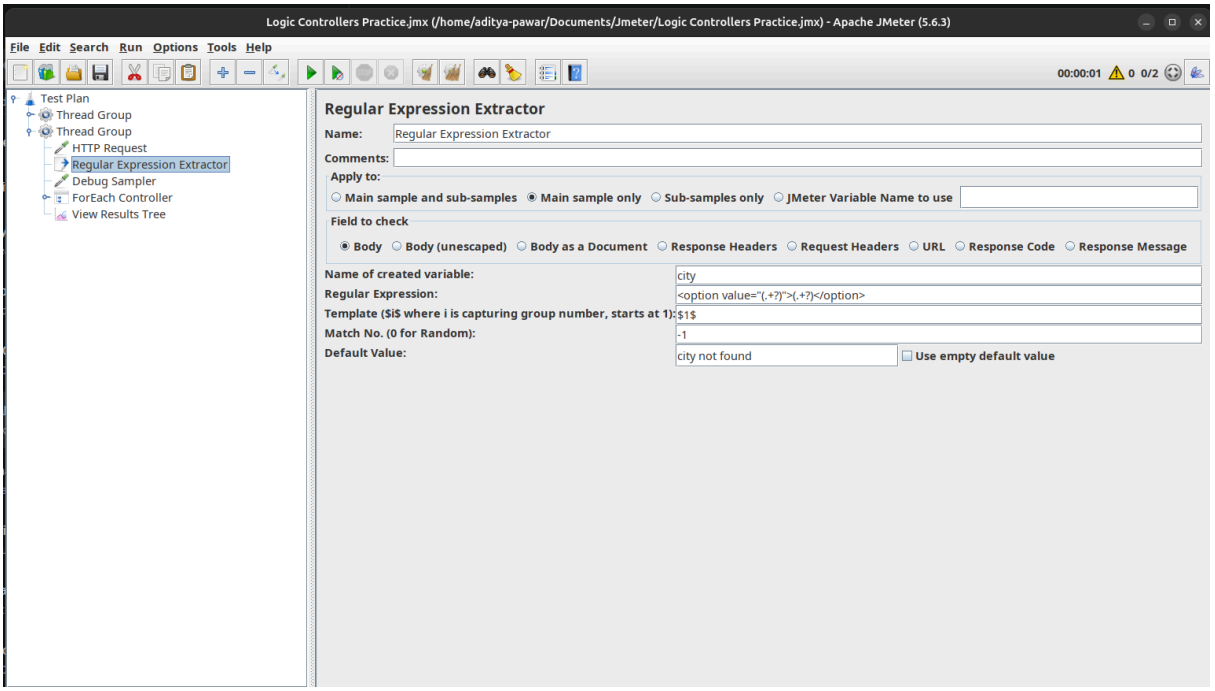


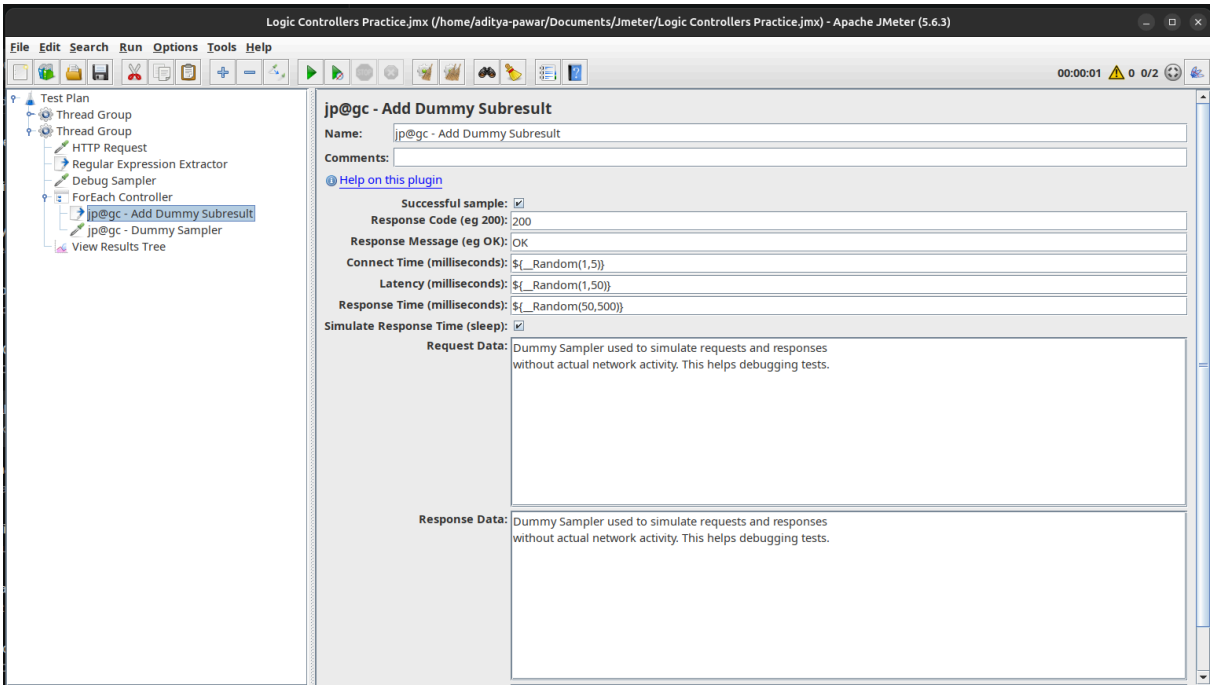


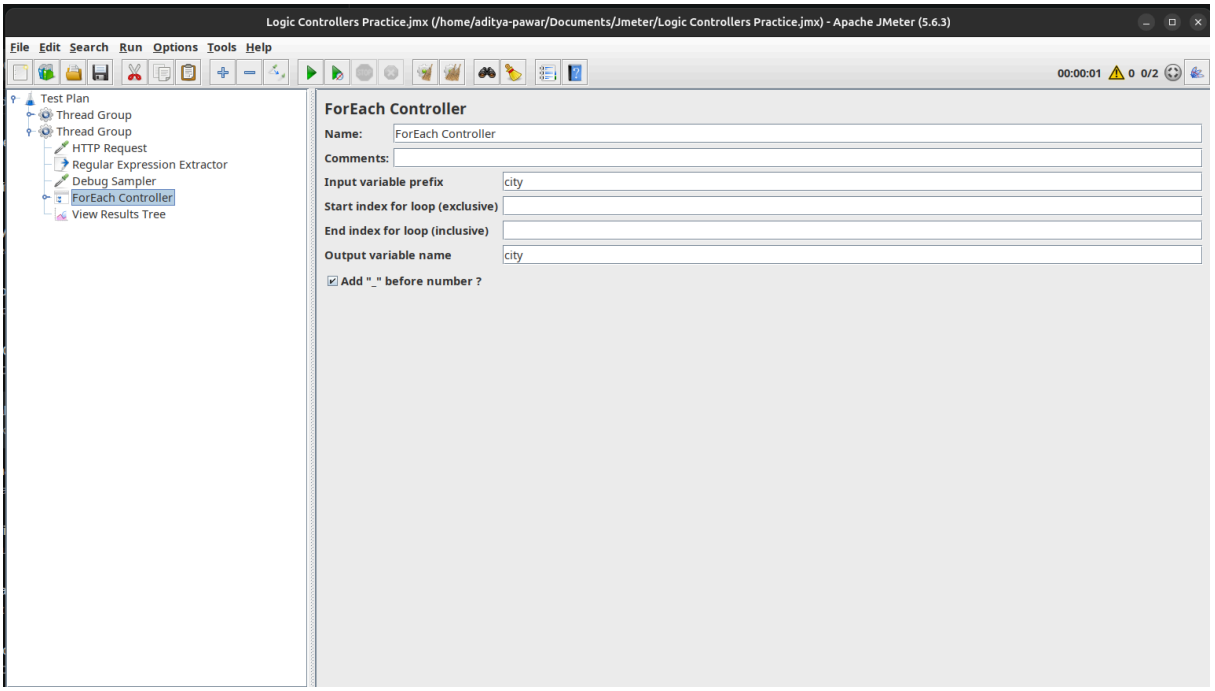
7. ForEach controller

- **ForEach Controller** in JMeter is used to **iterate over a set of variables (like values from a CSV or array) and execute its child samplers once for each variable value.**


Logic Controllers Practice.jmx (/home/aditya-pawar/Documents/Jmeter/Logic Controllers Practice.jmx) - Apache JMeter (5.6.3)
File Edit Search Run Options Tools Help
00:00:01 0 0/2
Test Plan
Thread Group
Thread Group
HTTP Request
Regular Expression Extractor
Debug Sampler
ForEach Controller
View Results Tree
HTTP Request
Name: HTTP Request
Comments:
Basic Advanced
Web Server
Protocol [http]: https
Server Name or IP: blazedemo.com
Port Number:
HTTP Request
GET
Path:
Content encoding:
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data
Browser-compatible headers
Parameters
Body Data
Files Upload
Send Parameters With the Request:
Name:
Value
URL Enco...
Content-Type
Include Equ...
Detail
Add
Add from Clipboard
Delete
Up
Down


Logic Controllers Practice.jmx (/home/aditya-pawar/Documents/Jmeter/Logic Controllers Practice.jmx) - Apache JMeter (5.6.3)
File Edit Search Run Options Tools Help
00:00:01 0 0/2
Test Plan
Thread Group
Thread Group
HTTP Request
Regular Expression Extractor
Debug Sampler
ForEach Controller
View Results Tree
Regular Expression Extractor
Name: Regular Expression Extractor
Comments:
Apply to:
Main sample and sub-samples
Main sample only
Sub-samples only
JMeter Variable Name to use
Field to check
Body
Body (unescaped)
Body as a Document
Response Headers
Request Headers
URL
Response Code
Response Message
Name of created variable: city
Regular Expression: <option value="(.+?)">(.+?)</option>
Template (i where i is capturing group number, starts at 1): 1
Match No. (0 for Random): -1
Default Value: city not found
Use empty default value


Logic Controllers Practice.jmx (/home/aditya-pawar/Documents/Jmeter/Logic Controllers Practice.jmx) - Apache JMeter (5.6.3)
File Edit Search Run Options Tools Help
00:00:01 0 0/2
Test Plan
Thread Group
Thread Group
HTTP Request
Regular Expression Extractor
Debug Sampler
ForEach Controller
jp@gc - Add Dummy Subresult
jp@gc - Dummy Sampler
View Results Tree
jp@gc - Add Dummy Subresult
Name: jp@gc - Add Dummy Subresult
Comments:
Help on this plugin
Successful sample:
Response Code (eg 200): 200
Response Message (eg OK): OK
Connect Time (milliseconds): ${__Random(1,5)}
Latency (milliseconds): ${__Random(1,50)}
Response Time (milliseconds): ${__Random(50,500)}
Simulate Response Time (sleep):
Request Data: Dummy Sampler used to simulate requests and responses without actual network activity. This helps debugging tests.
Response Data: Dummy Sampler used to simulate requests and responses without actual network activity. This helps debugging tests.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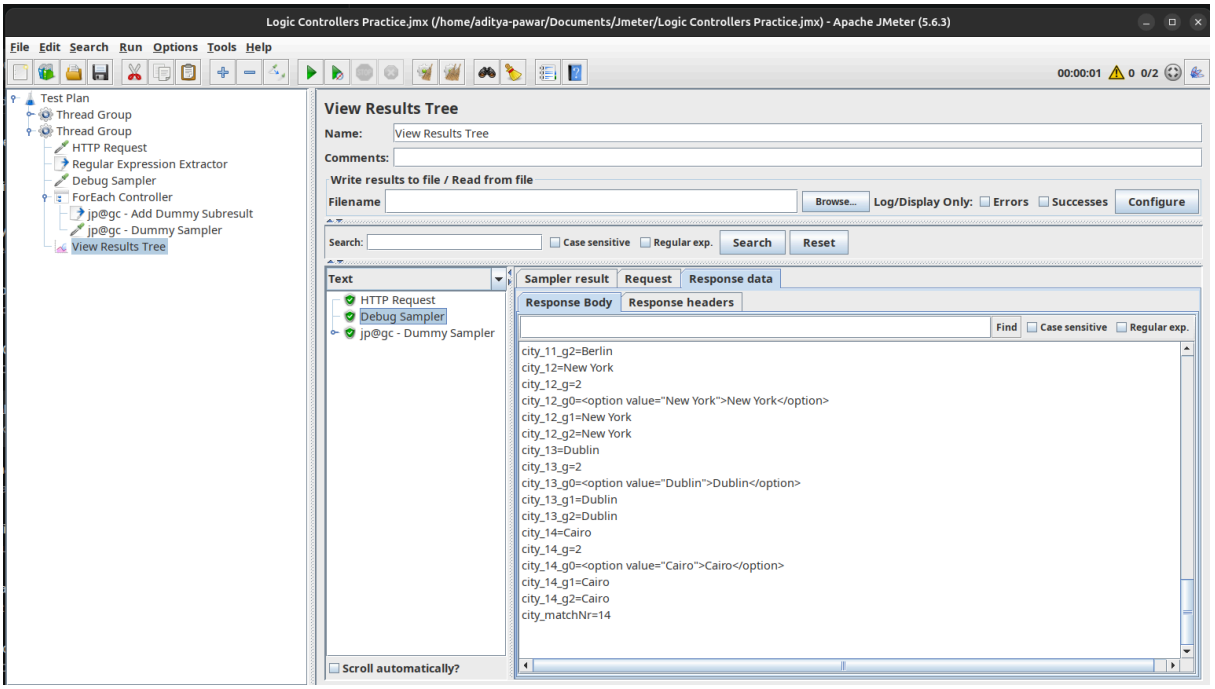
File Edit Search Run Options Tools Help
00:00:01 0 0/2
Test Plan
Thread Group
Thread Group
HTTP Request
Regular Expression Extractor
Debug Sampler
ForEach Controller
View Results Tree
ForEach Controller
Name: ForEach Controller
Comments:
Input variable prefix city
Start index for loop (exclusive)
End index for loop (inclusive)
Output variable name city
Add "_" before number ?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File Edit Search Run Options Tools Help
00:00:01 0 0/2
Test Plan
Thread Group
Thread Group
HTTP Request
Regular Expression Extractor
Debug Sampler
ForEach Controller
jp@gc - Add Dummy Subresult
jp@gc - Dummy Sampler
View Results Tree
View Results Tree
Name: View Results Tree
Comments:
Write results to file / Read from file
Filename
Browse...
Log/Display Only: Errors Successes
Configure
Search:
Case sensitive
Regular exp.
Search
Reset
Text
HTTP Request
Debug Sampler
jp@gc - Dummy Sampler
Scroll automatically?
Sampler result
Request
Response data
Response Body
Response headers
Find
Case sensitive
Regular exp.
city_11_g2=Berlin
city_12=New York
city_12_g=2
city_12_g0=<option value="New York">New York</option>
city_12_g1=New York
city_12_g2=New York
city_13=Dublin
city_13_g=2
city_13_g0=<option value="Dublin">Dublin</option>
city_13_g1=Dublin
city_13_g2=Dublin
city_14=Cairo
city_14_g=2
city_14_g0=<option value="Cairo">Cairo</option>
city_14_g1=Cairo
city_14_g2=Cairo
city_matchNr=14