



Lab/Project Assignment Report

Only for course Teacher					
		Needs Improvement	Developing	Sufficient	Above Average
Allocate mark & Percentage		25%	50%	75%	100%
Creativity	1				
Content Development	2				
Problem solving	1				
Organization and Formatting	1				
Total obtained mark					
Comments					

Semester: Summer-2025

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Batch: 40th

Section: D1

Course Code: SE-313 Course Name: Software Quality Assurance & Testing Lab

Course Teacher Name: ZNM Zarif Mahmud

Designation: Lecturer

Submission Date: 26/08/2025

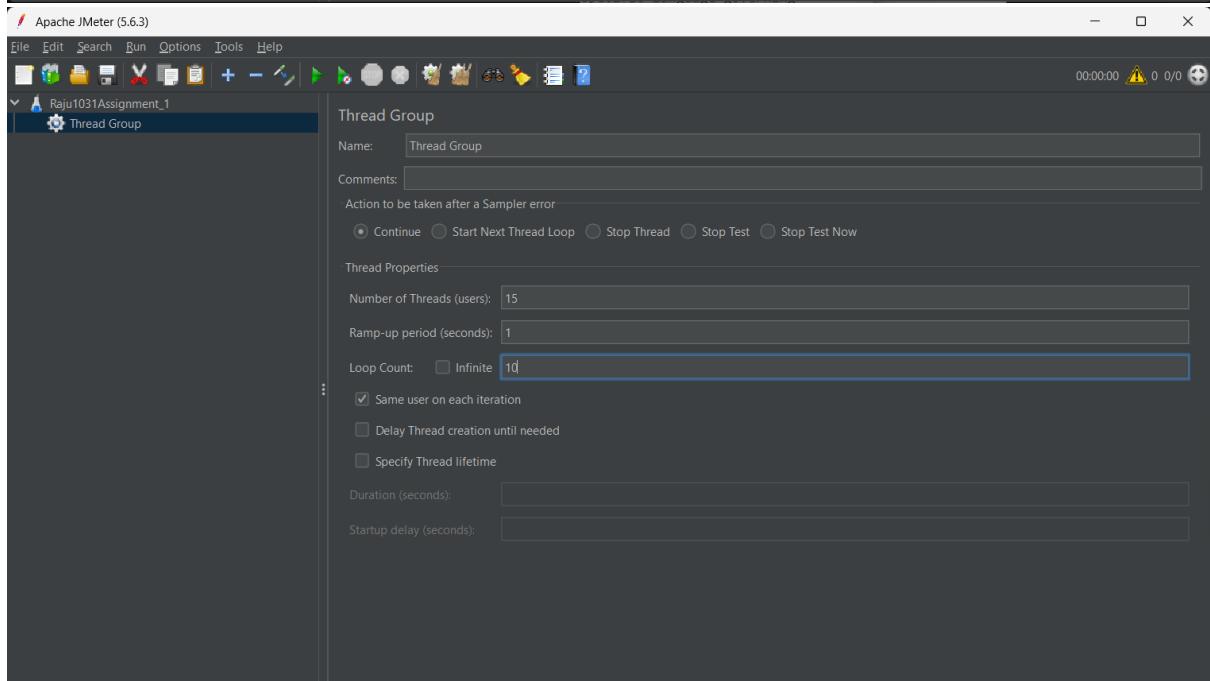
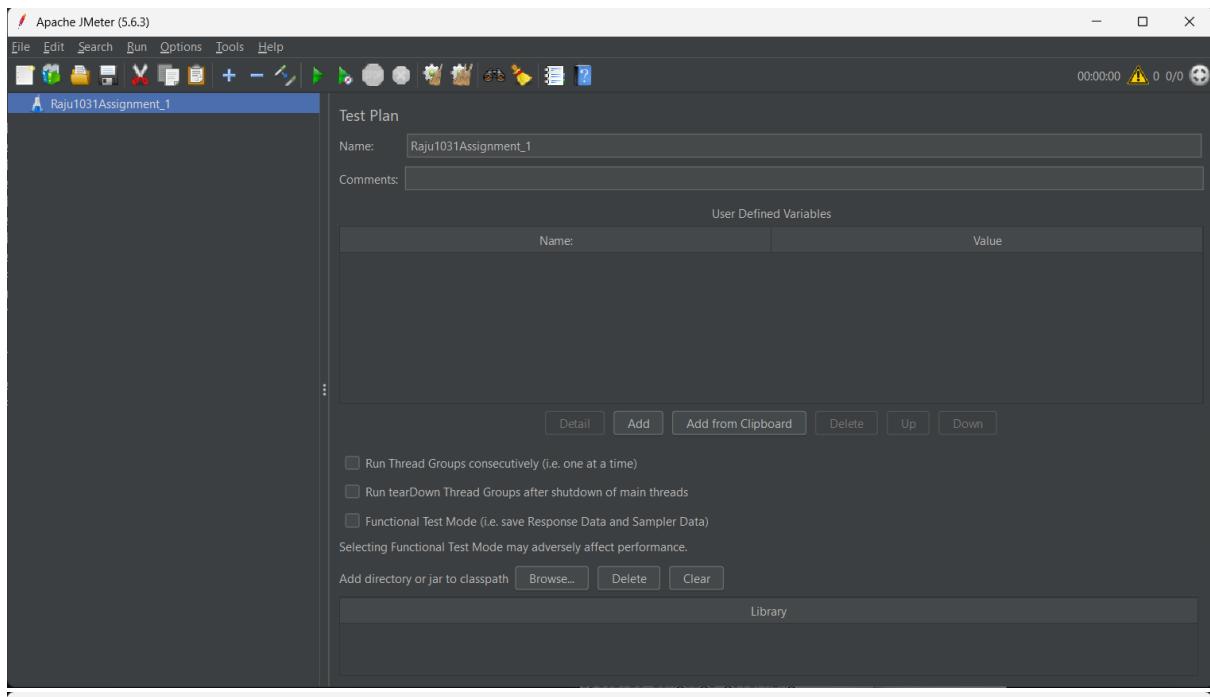
JMeter (Performance Testing)

Task 1: Setting up JMeter

1. First, make sure you have Java (JDK 8 or later) installed on your system.
2. Go to the official Apache JMeter website, download the ZIP package, and then extract it.
3. To launch JMeter:
 - (i) On Windows, open the bin folder and double-click on jmeter.bat.

Task-2: Test Plan Creation

1. I designed a test plan that performs GET requests on the public API endpoint:
<https://www.youtube.com/>
2. Setup Details:
 - i. Thread Group:
 - (a) Number of Threads (Users): 15
 - (b) Loop Count: 10 (which makes a total of 150 requests)
 - ii. HTTP Request Sampler:
 - (a) Protocol: HTTPS
 - (b) Server Name: https://www.youtube.com/
 - (c) Path: /posts
 - (d) Method: GET
 - iii. Listeners Included:
 - (a) View Results Tree
 - (b) Summary Report



Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

Raju1031Assignment_1

Thread Group

HTTP Request

Name: HTTP Request

Comments:

Basic Advanced

Web Server

Protocol [http]: https Server Name or IP: www.youtube.com Port Number:

HTTP Request

GET Path: https://www.youtube.com/ 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 Encode?	Content-Type	Include Equals?
		<input checked="" type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>

Detail Add Add from Clipboard Delete Up Down

Apache JMeter (5.6.3)

Edit Search Run Options Tools Help

Raju1031Assignment_1

Thread Group

HTTP Request

View Results Tree

Name: View Results Tree.jmx

Save In: bin

File examples report-template templates View Results Tree.jmx youtubeTest.jmx

File Name: View Results Tree.jmx

Files of Type: JMeter [.jmx]

Save Cancel

Log/Display Only: Errors Warnings Info Debug All

Scroll automatically?

Raw Parsed

The screenshot shows the Apache JMeter interface with the title "View Results Tree.jmx". The left sidebar displays a tree structure under "Raju1031Assignment_1": "Thread Group" and "HTTP Request". The "View Results Tree" item is selected and highlighted in blue. The main panel is titled "View Results Tree" and contains the following fields:

- Name: View Results Tree
- Comments: (empty)
- Write results to file / Read from file
- Filename: (empty)
- Log/Display Only: Errors Successes Configure
- Search: Case sensitive Regular exp.
- Text Sampler result

The "Text" dropdown is currently selected. Below it, a list of 15 "HTTP Request" entries is shown, each preceded by a green checkmark icon. At the bottom of the list, there is a small "..." button. The footer of the dialog includes the "Raw" and "Parsed" tabs, and a checkbox for "Scroll automatically?".

The screenshot shows the Apache JMeter interface. The left sidebar displays a tree structure with a root node 'Raju1031Assignment_1' expanded, showing 'Thread Group', 'HTTP Request', 'View Results Tree', and 'View Results in Table'. The 'View Results in Table' item is currently selected and highlighted in blue. The main panel is titled 'View Results in Table' and contains several configuration fields: 'Name:' set to 'View Results in Table', 'Comments:' empty, and options to 'Write results to file / Read from file'. Below these are fields for 'Filename' (empty), 'Browse...', 'Log/Display Only:', and checkboxes for 'Errors', 'Successes', and 'Configure'. The bottom half of the screen is a detailed table of test results:

Sample #	Start Time	Thread Name	Label	Sample Time(...)	Status	Bytes	Sent Bytes	Latency	Connect Tim...
131	00:44:39.080	Thread Grou...	HTTP Request	6999	✗	27994	5336	333	0
132	00:44:43.099	Thread Grou...	HTTP Request	3160	✓	666924	177	190	0
133	00:44:44.760	Thread Grou...	HTTP Request	1720	✓	686072	177	172	0
134	00:44:43.440	Thread Grou...	HTTP Request	3276	✓	686055	177	141	0
135	00:44:42.017	Thread Grou...	HTTP Request	4709	✓	686156	177	289	0
136	00:44:44.142	Thread Grou...	HTTP Request	2694	✓	686787	177	205	0
137	00:44:43.962	Thread Grou...	HTTP Request	3674	✓	687979	177	217	0
138	00:44:45.682	Thread Grou...	HTTP Request	2246	✓	686341	177	206	0
139	00:44:46.716	Thread Grou...	HTTP Request	1626	✓	694485	177	130	0
140	00:44:46.263	Thread Grou...	HTTP Request	2416	✓	685511	177	274	0
141	00:44:46.726	Thread Grou...	HTTP Request	2255	✓	687050	177	186	0
142	00:44:46.836	Thread Grou...	HTTP Request	2146	✓	688024	177	174	0
143	00:44:47.636	Thread Grou...	HTTP Request	2020	✓	687761	177	144	0
144	00:44:48.982	Thread Grou...	HTTP Request	863	✓	686542	177	209	0
145	00:44:48.982	Thread Grou...	HTTP Request	914	✓	685284	177	174	0
146	00:44:43.899	Thread Grou...	HTTP Request	6216	✗	27994	5336	361	0
147	00:44:49.845	Thread Grou...	HTTP Request	566	✓	684706	177	166	0
148	00:44:49.656	Thread Grou...	HTTP Request	1543	✓	686919	177	184	0
149	00:44:46.079	Thread Grou...	HTTP Request	7241	✗	27994	5336	535	0
150	00:44:53.321	Thread Grou...	HTTP Request	3864	✓	701076	2888	329	0

View Results Tree.jmx (C:\Users\afzal\Downloads\apache-jmeter-5.6.3\apache-jmeter-5.6.3\bin\View Results Tree.jmx) - Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

00:01:01 ⚠ 0 / 0 / 15

Raju1031Assignment_1

Thread Group

HTTP Request

View Results Tree

View Results in Table

Name: View Results in Table

Comments:

- Write results to file / Read from file

Filename Browse... Log/Display Only: Errors Successes Configure

Sample #	Start Time	Thread Name	Label	Sample Time(...)	Status	Bytes	Sent Bytes	Latency	Connect Tim...
1	00:43:56.228	Thread Grou...	HTTP Request	752	✓	688045	177	230	79
2	00:43:56.365	Thread Grou...	HTTP Request	2643	✓	680550	177	331	87
3	00:43:56.832	Thread Grou...	HTTP Request	3205	✓	685942	177	1128	853
4	00:43:57.035	Thread Grou...	HTTP Request	3645	✓	686257	177	451	143
5	00:43:56.162	Thread Grou...	HTTP Request	4532	✓	685517	177	299	125
6	00:43:56.765	Thread Grou...	HTTP Request	4075	✓	688189	177	1377	1129
7	00:43:57.101	Thread Grou...	HTTP Request	5347	✓	686664	177	2864	2445
8	00:43:56.699	Thread Grou...	HTTP Request	5750	✓	690696	177	805	407
9	00:43:56.564	Thread Grou...	HTTP Request	6086	✓	690386	177	2705	2476
10	00:43:56.296	Thread Grou...	HTTP Request	6794	✓	683137	177	235	81
11	00:43:56.981	Thread Grou...	HTTP Request	6279	✓	686654	177	208	0
12	00:43:56.430	Thread Grou...	HTTP Request	6844	✓	685533	177	416	113
13	00:43:56.899	Thread Grou...	HTTP Request	6949	✓	685917	177	350	102
14	00:43:59.009	Thread Grou...	HTTP Request	5534	✓	682556	177	270	0
15	00:44:00.841	Thread Grou...	HTTP Request	3983	✓	688168	177	275	0
16	00:44:02.448	Thread Grou...	HTTP Request	3214	✓	688015	177	199	0
17	00:43:56.632	Thread Grou...	HTTP Request	9055	✓	688954	177	901	571
18	00:44:00.680	Thread Grou...	HTTP Request	5034	✓	681969	177	191	0
19	00:43:56.969	Thread Grou...	HTTP Request	9346	✓	684679	177	413	103
20	00:43:56.498	Thread Grou...	HTTP Request	9848	✓	683035	177	1069	664

Task-3: Analyse the test results

In Summary Report:

- Average (ms) → Average response time is 4965
- Throughput → 2.4/sec
- Error % → 9.33%

View Results Tree.jmx (C:\Users\afzal\Downloads\apache-jmeter-5.6.3\apache-jmeter-5.6.3\bin\View Results Tree.jmx) - Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

00:01:01 ⚠ 0 / 0 / 15

Raju1031Assignment_1

Thread Group

HTTP Request

View Results Tree

View Results in Table

Aggregate Report

Name: Aggregate Report

Comments:

- Write results to file / Read from file

Filename Browse... Log/Display Only: Errors Successes Configure

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maxim...	Error %	Throughput	Received K...	Sent KB/sec
HTTP Req...	150	4965	4989	7722	8203	9301	367	10826	9.33%	2.4/sec	1484.26	1.58
TOTAL	150	4965	4989	7722	8203	9301	367	10826	9.33%	2.4/sec	1484.26	1.58

Include group name in label Save Table Data Save Table Header

Task-4: Export the file

- The test plan is saved as Raju1031Assignment_1.jmx

