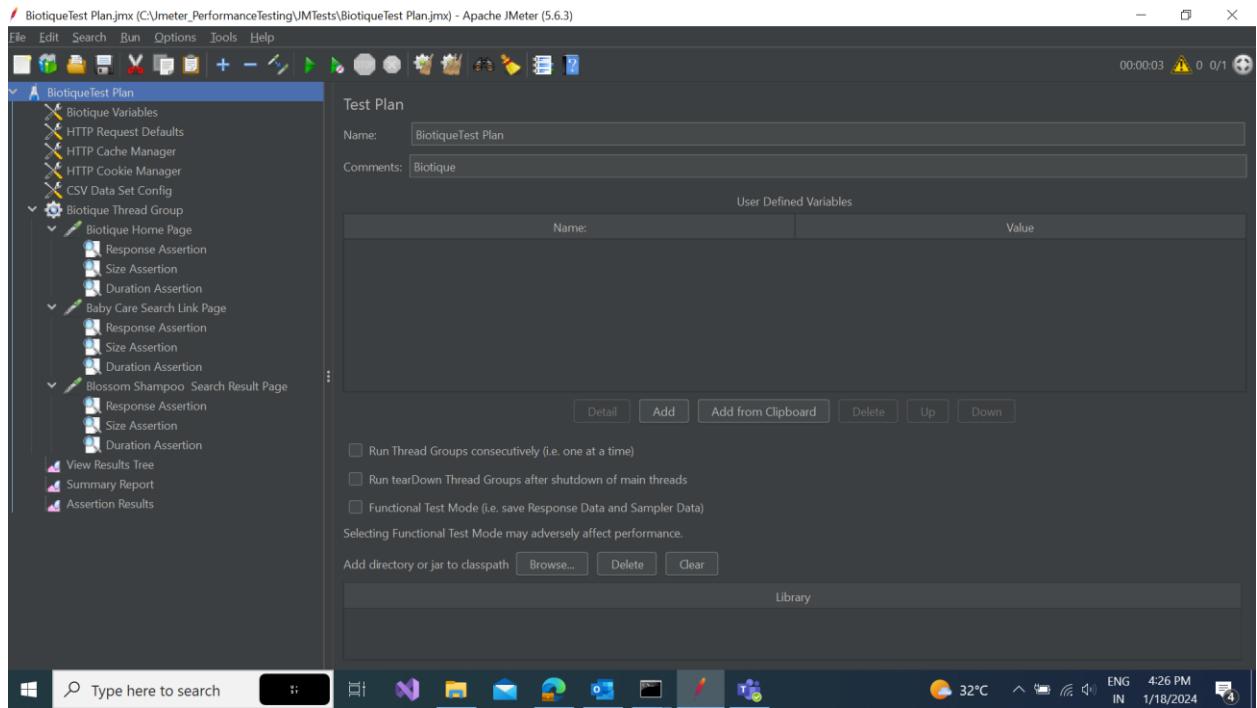


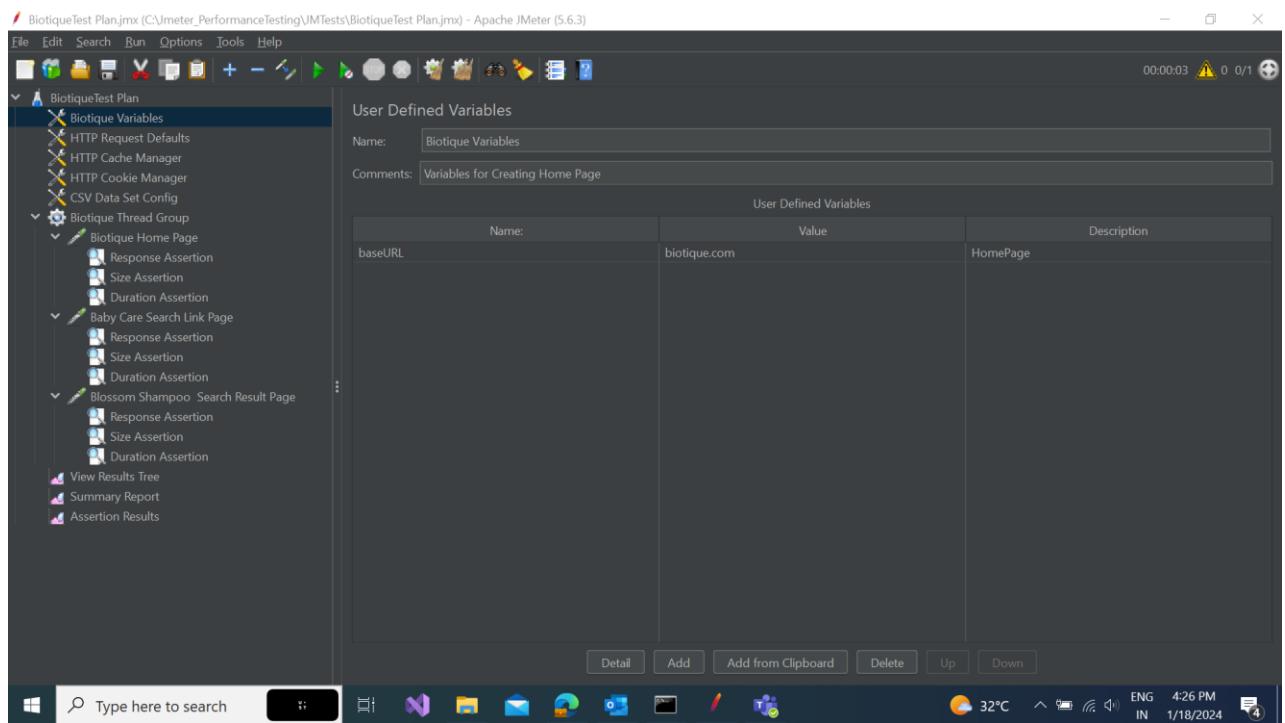
Case Study:Web Performance Test

Url : <https://www.biotique.com/>

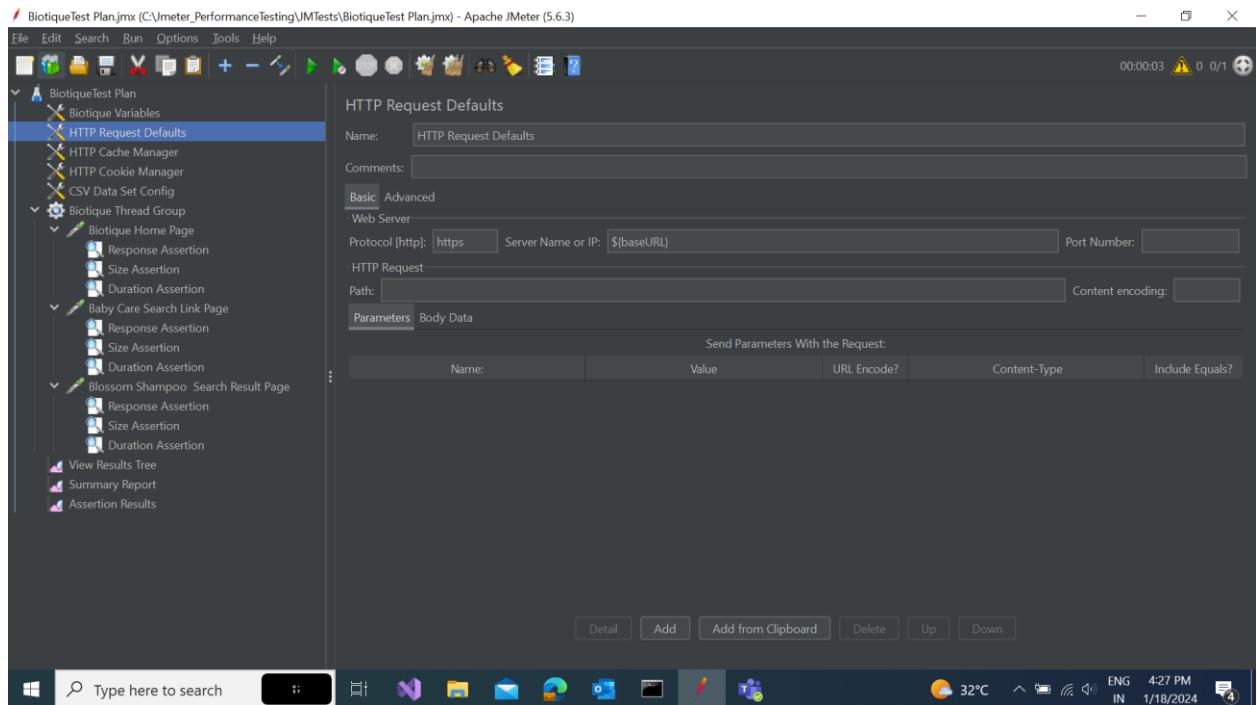
1. Created Test Plan named : Biotique Test Plan



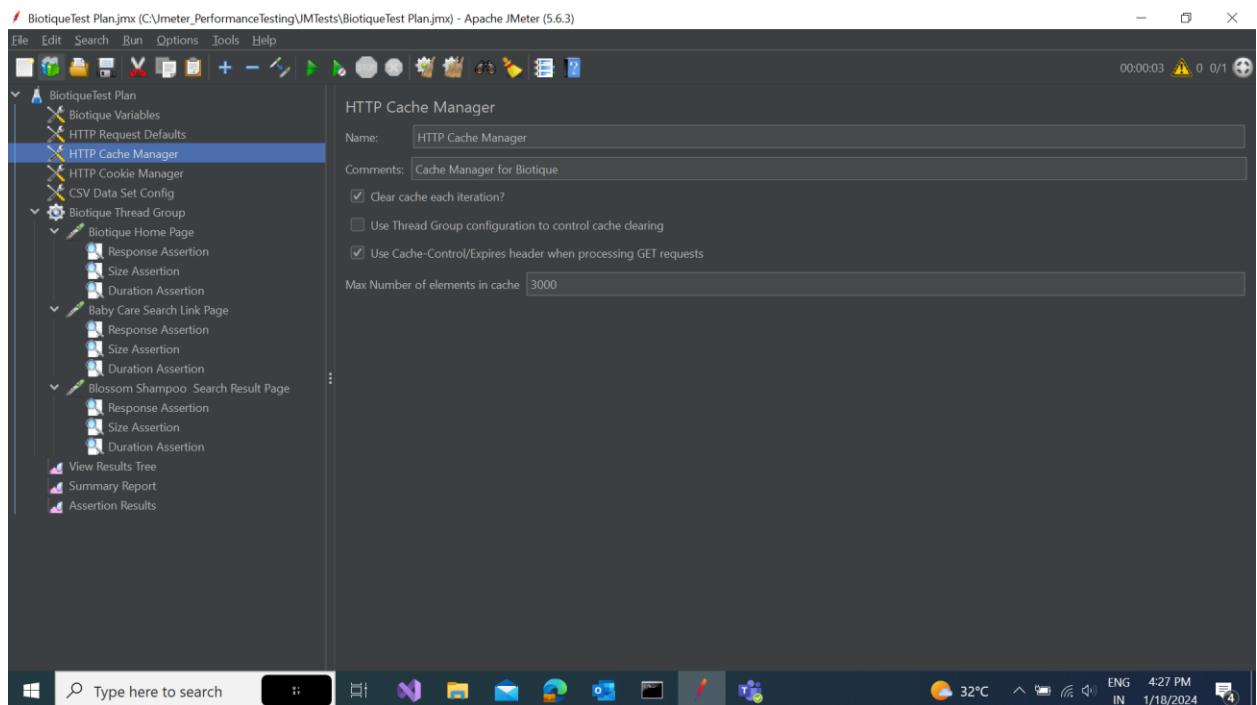
2. Created User Defined Variables named : Biotique Variables. Inside that I have provided the baseurl of the site.



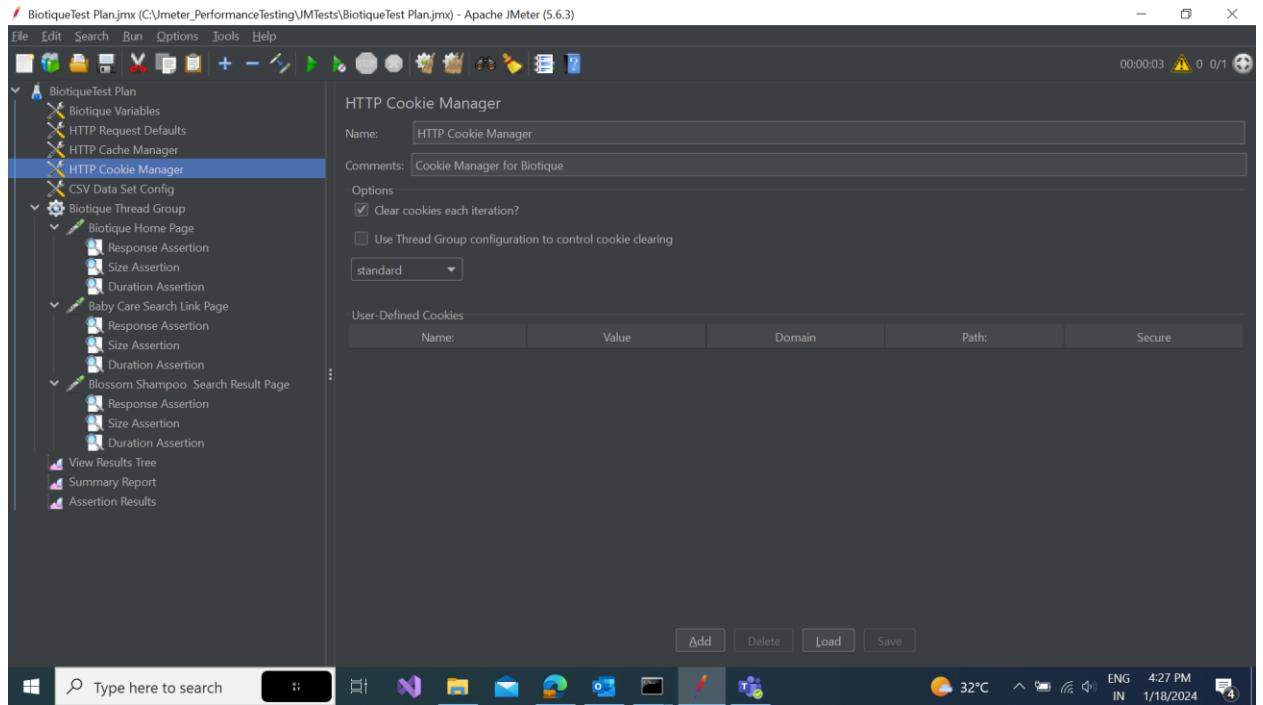
3. Created HTTP Request Defaults. The value we defined in User Defined Variables appears here by default ,ie.,baseUrl



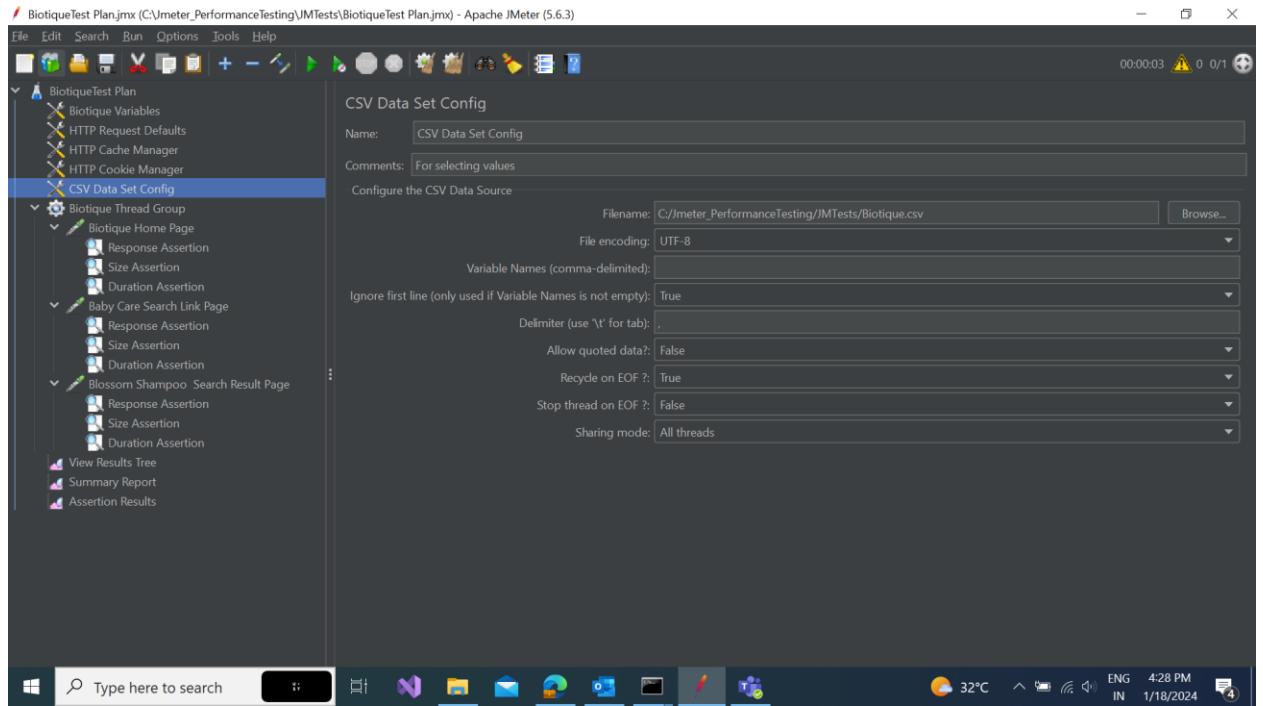
4. Created HTTP Cache Manager



5. Created HTTP Cookie Manager



6. Created CSV Data Set Config : Reading data from external csv file like data driven.



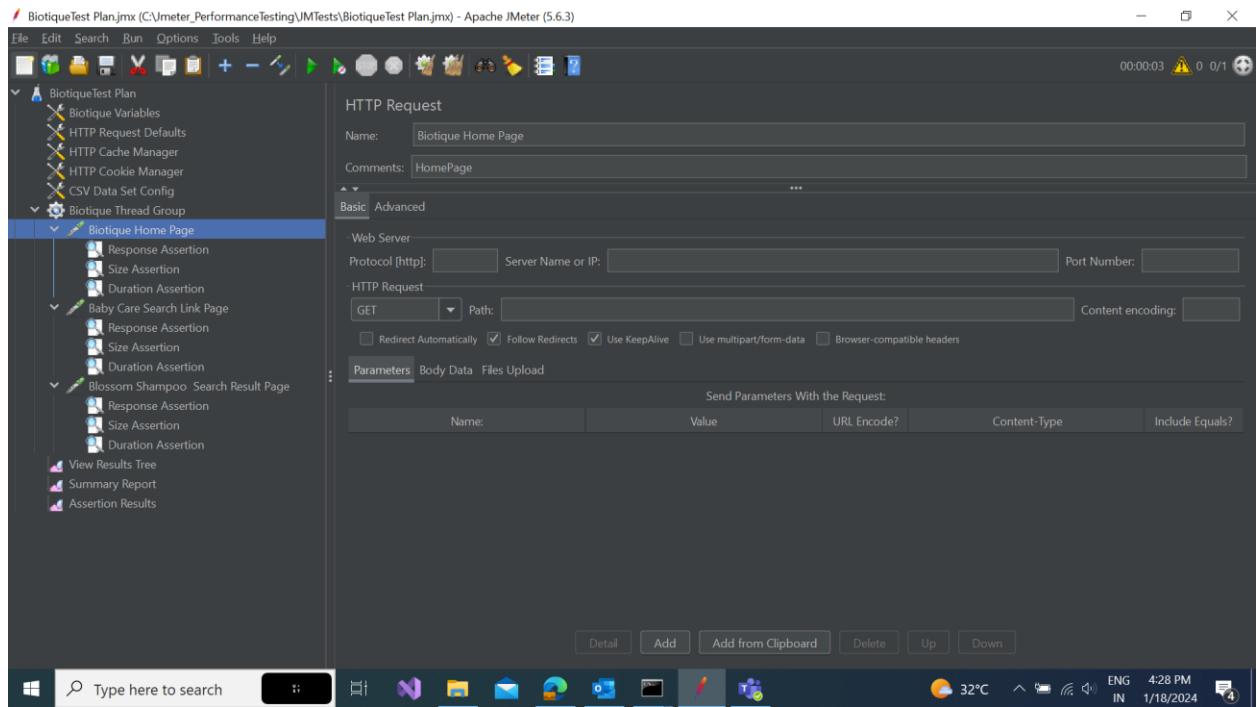
7. The data is taken this excel sheet named Biotique.

The screenshot shows a Microsoft Excel spreadsheet titled "Biotique". The data is contained in a single row (row 1) with columns A through S. The first cell, A1, contains the text "searchtext". The second cell, B1, contains the text "apple-blossom-shampoo-for-princess-180ml". The remaining cells from C1 to S1 are empty. The Excel ribbon at the top shows various tabs like File, Home, Insert, etc. The status bar at the bottom indicates the file path as "C:\Jmeter_PerformanceTesting\UMTests\BiotiqueTest Plan.jmx" and the version as "Apache JMeter (5.6.3)".

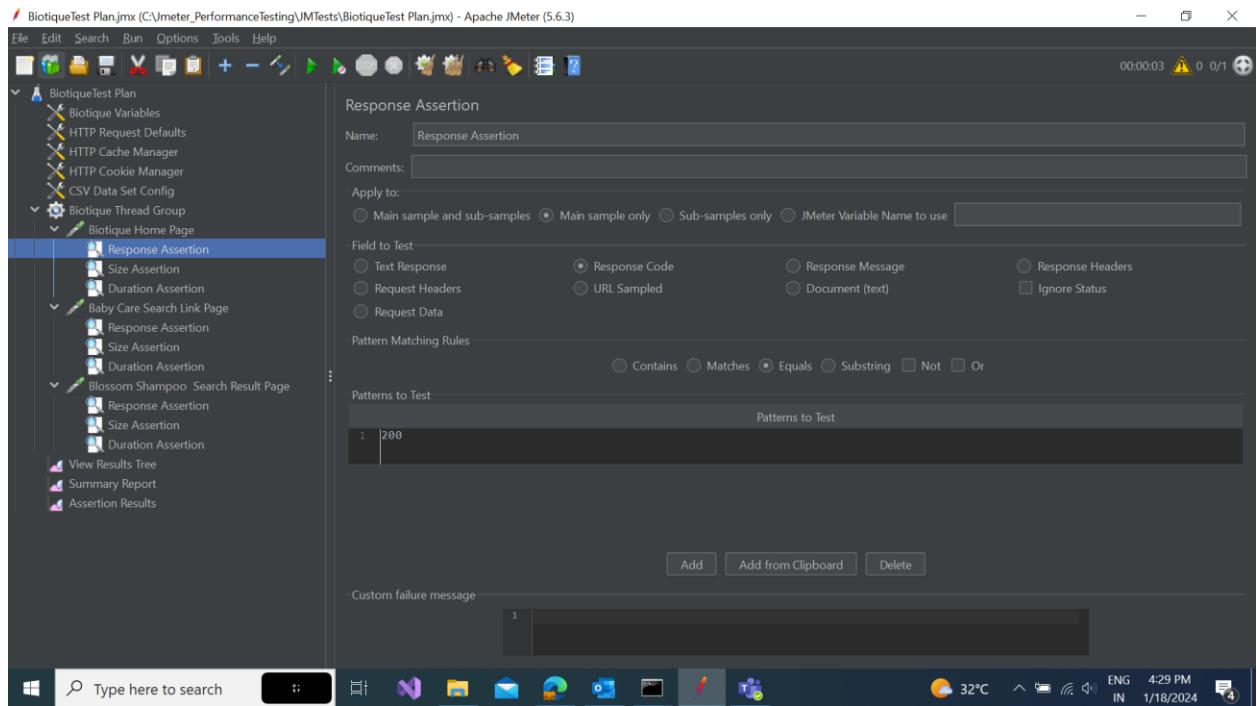
8. Created Thread Group named : Biotique Thread Group

The screenshot shows the Apache JMeter interface with the title bar "BiotiqueTest Plan (C:\Jmeter_PerformanceTesting\UMTests\BiotiqueTest Plan.jmx) - Apache JMeter (5.6.3)". On the left, there is a tree view of the test plan, showing a "BiotiqueTest Plan" node with several sub-elements like "Biotique Variables", "HTTP Request Defaults", "HTTP Cache Manager", "HTTP Cookie Manager", and "CSV Data Set Config". Below this, a "Biotique Thread Group" node is expanded, showing three sub-samples: "Biotique Home Page", "Baby Care Search Link Page", and "Blossom Shampoo Search Result Page", each with its own set of assertions (Response Assertion, Size Assertion, Duration Assertion). To the right of the tree view, there is a detailed configuration panel for the "Biotique Thread Group". The "Thread Group" section includes fields for "Name" (set to "Biotique Thread Group"), "Comments" (set to "Thread Group for Biotique Page"), and "Action to be taken after a Sampler error" (radio buttons for Continue, Start Next Thread Loop, Stop Thread, Stop Test, and Stop Test Now). The "Thread Properties" section includes "Number of Threads (users)" (set to 5), "Ramp-up period (seconds)" (set to 20), "Loop Count" (checkbox for Infinite is checked, value 1), and checkboxes for "Same user on each iteration", "Delay Thread creation until needed", and "Specify Thread lifetime". There are also fields for "Duration (seconds)" and "Startup delay (seconds)". The status bar at the bottom indicates the file path as "C:\Jmeter_PerformanceTesting\UMTests\BiotiqueTest Plan.jmx" and the version as "Apache JMeter (5.6.3)".

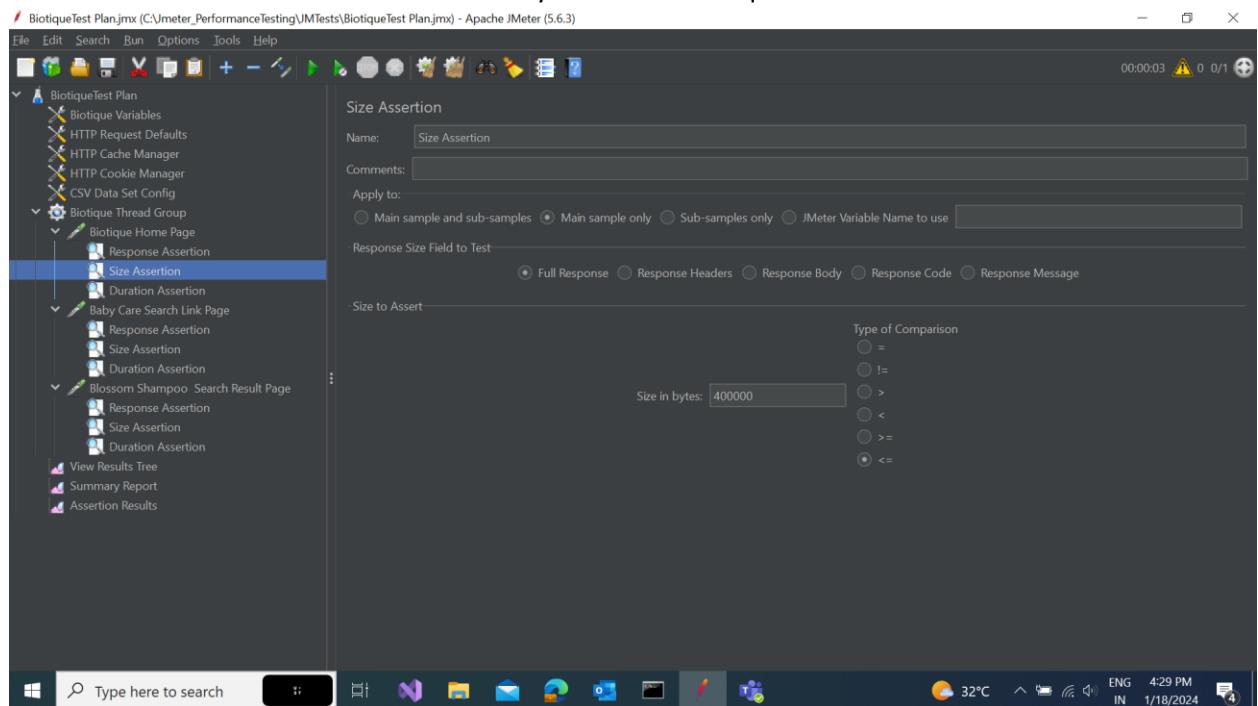
9. Created Http Request Sampler named : Biotique Home Page



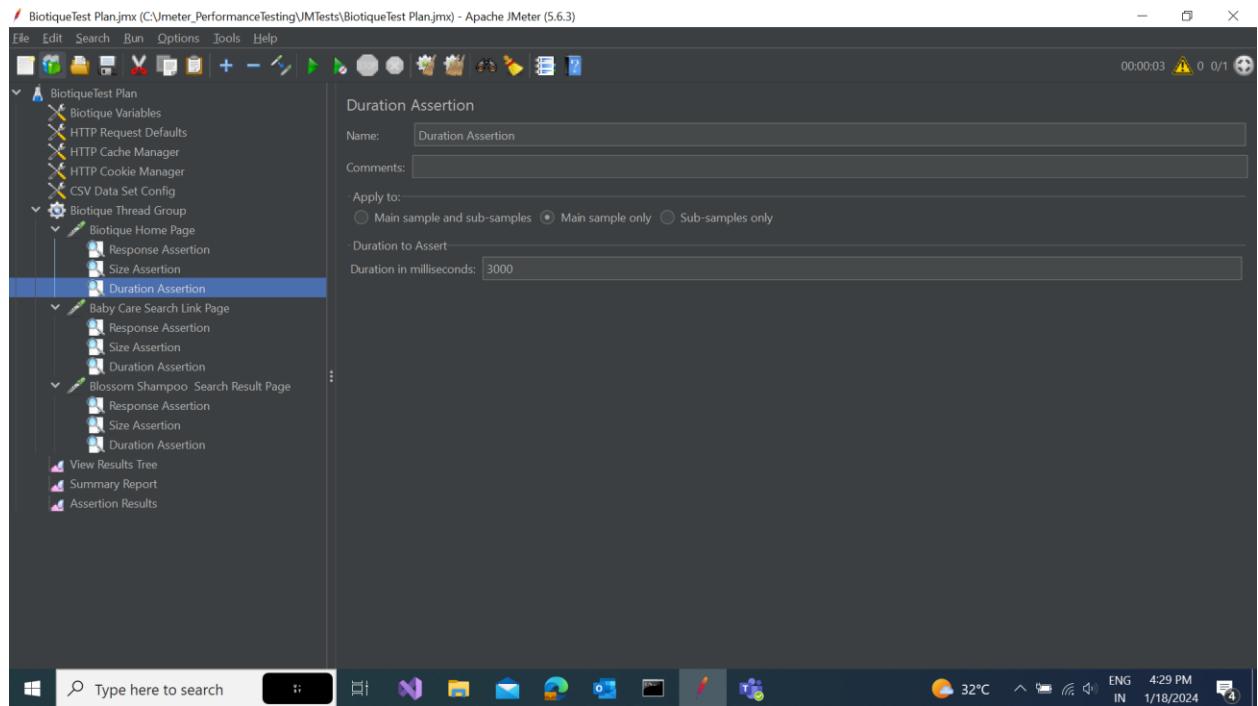
10. Created Assertion named Response Assertion and checked Status code equal to 200.



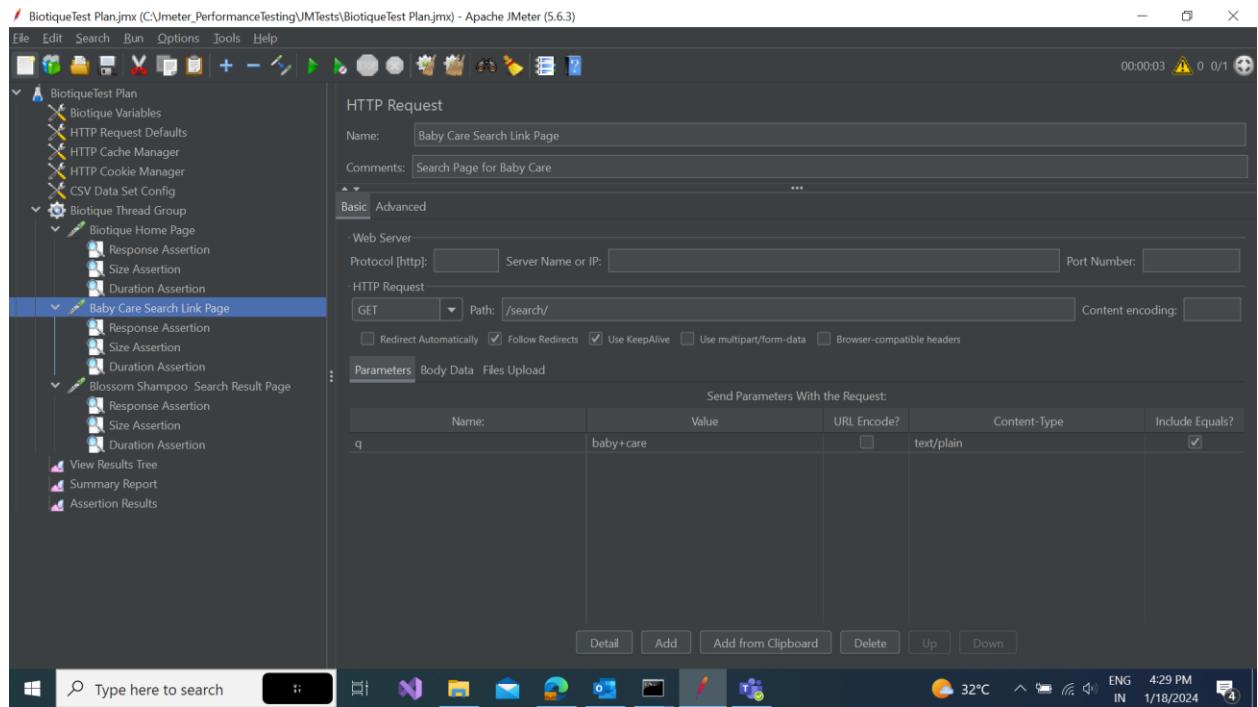
11. Created Size Assertion and checked Size in bytes less than or equal to 400000.



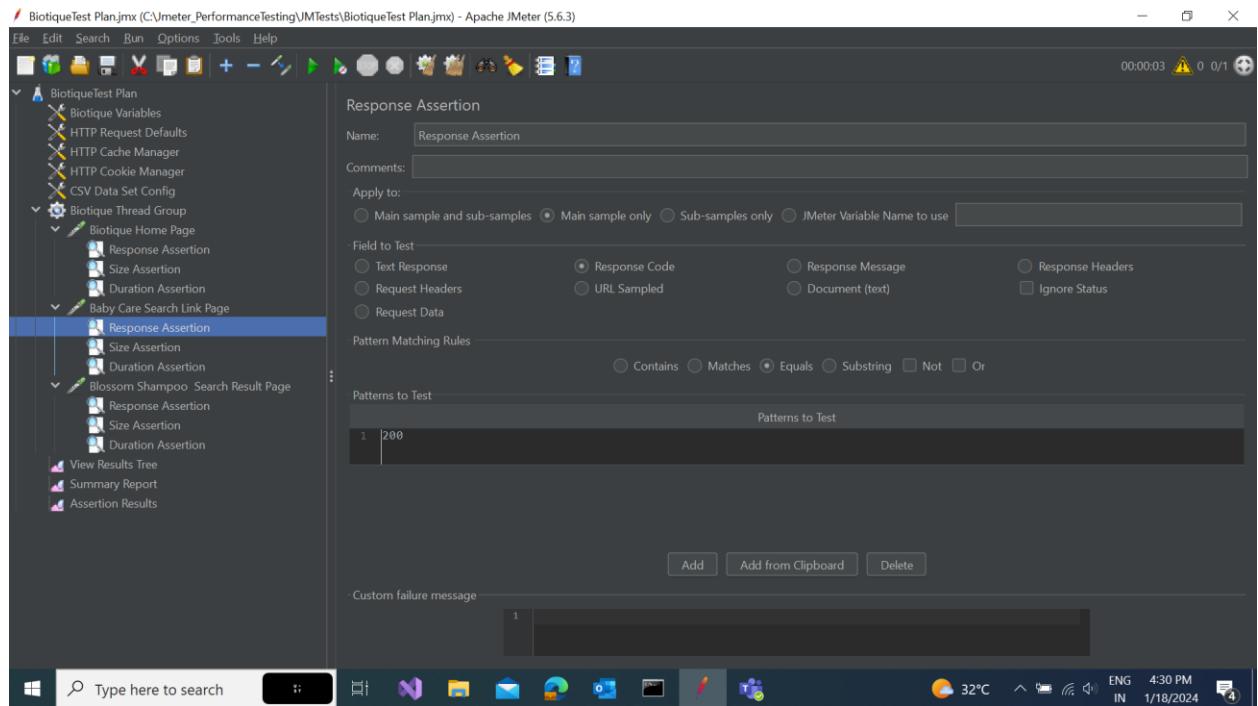
12. Created Duration Assertion by giving milliseconds as 3000.



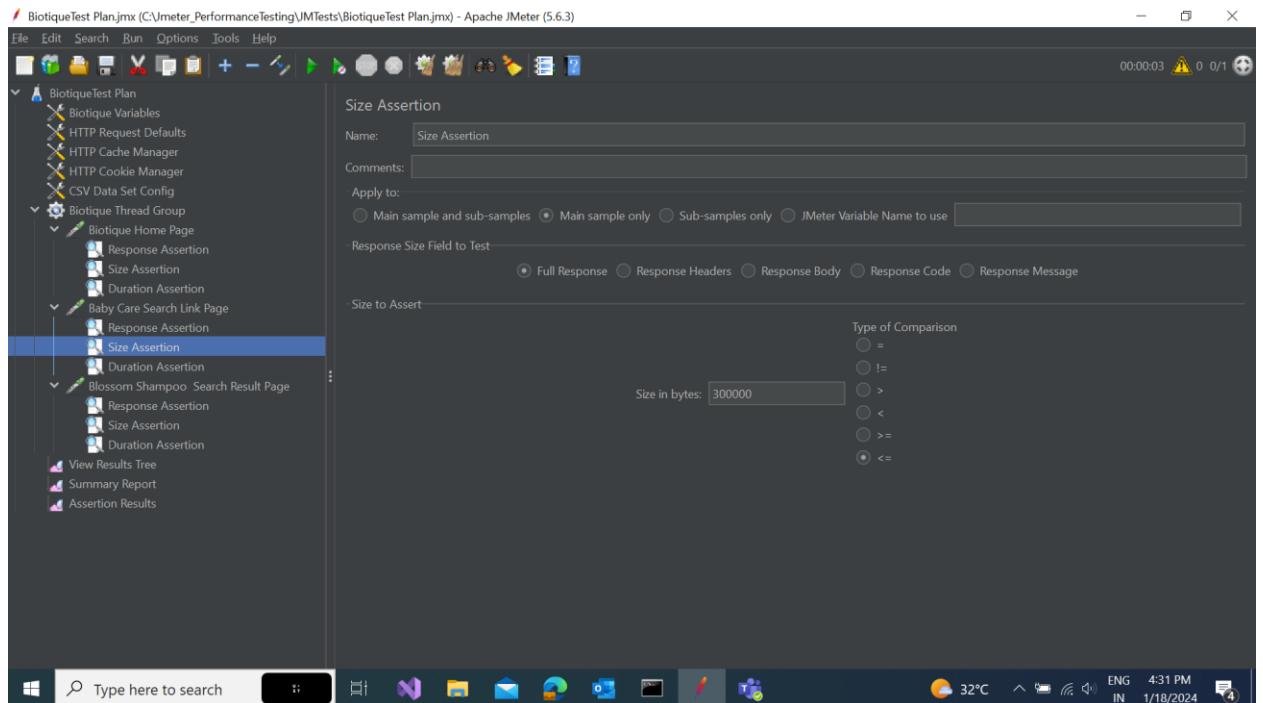
13. Created Http Request Sampler named : Baby Care Search Link Page



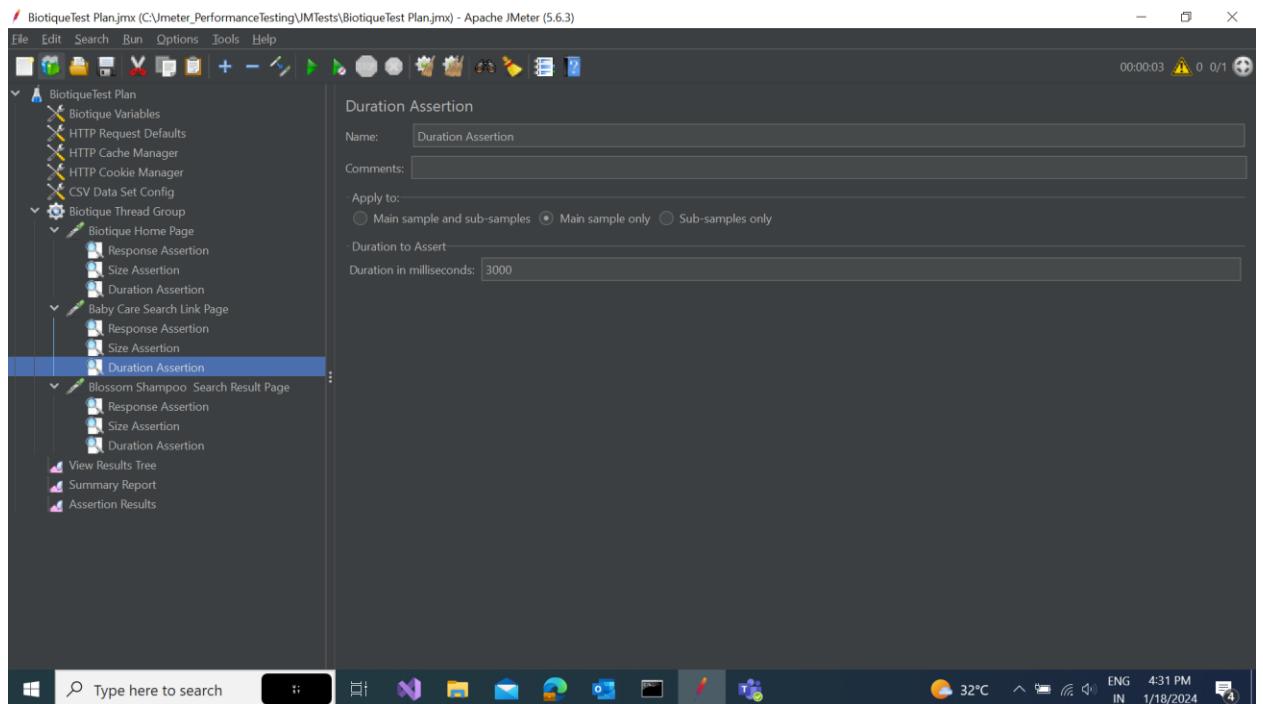
14. Created Assertion named Response Assertion and checked Status code equal to 200.



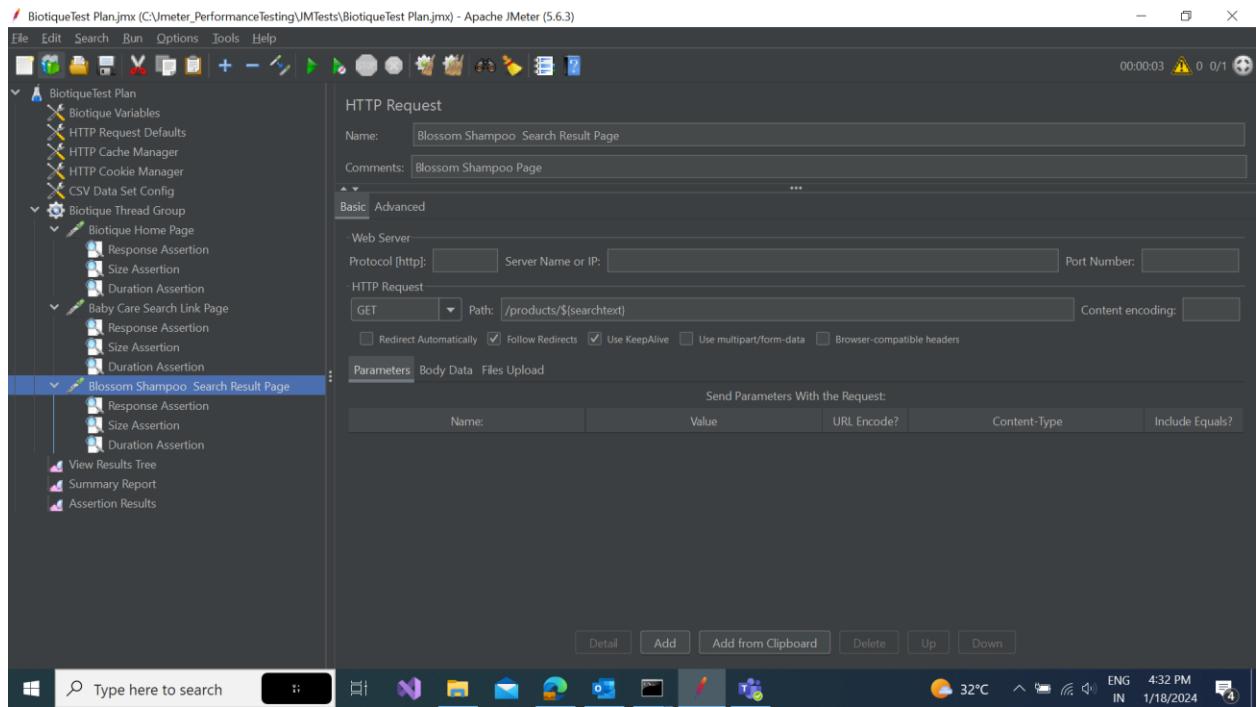
15. Created Size Assertion and checked Size in bytes less than or equal to 300000.



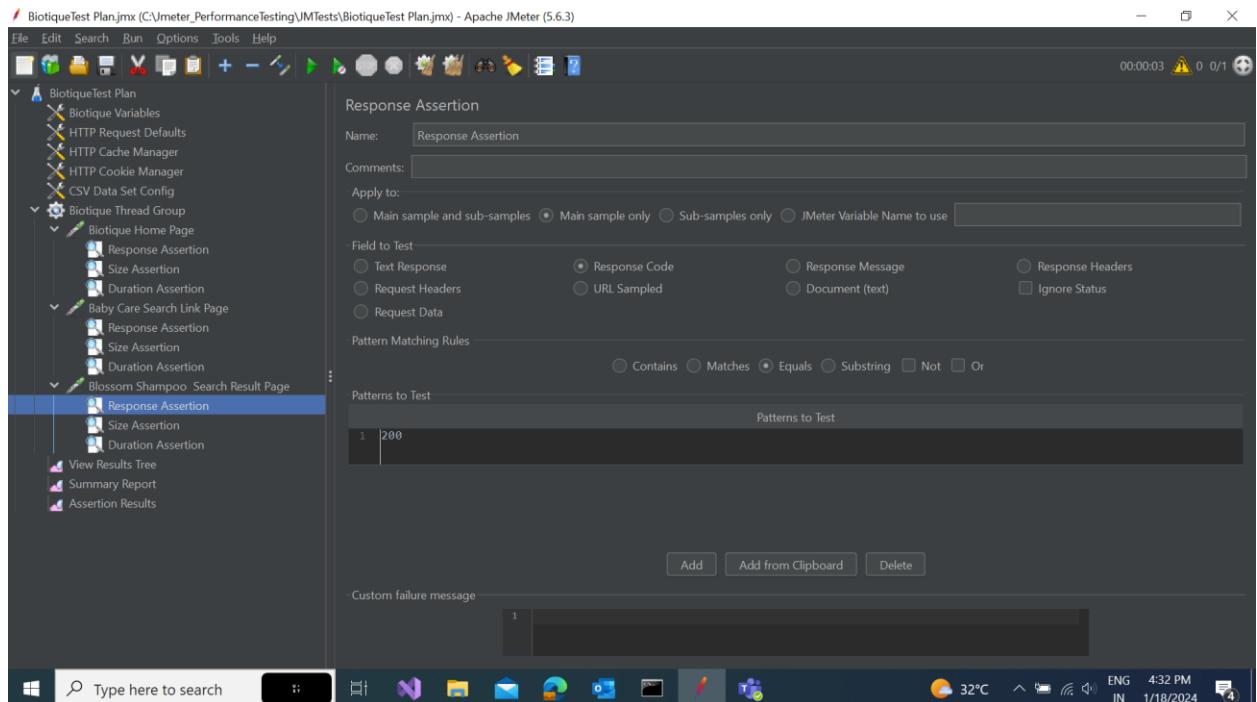
16. Created Duration Assertion by giving milliseconds as 3000.



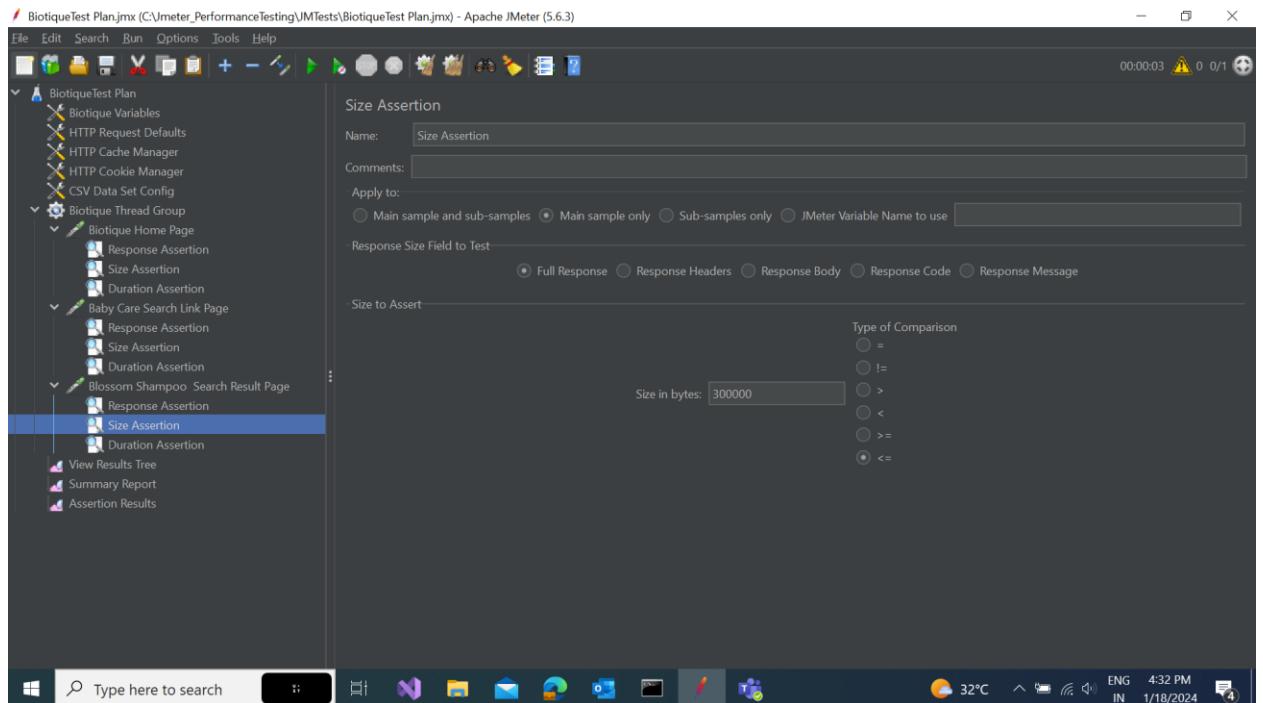
17. Created Http Request Sampler named : Blossom Shampoo Search Result Page



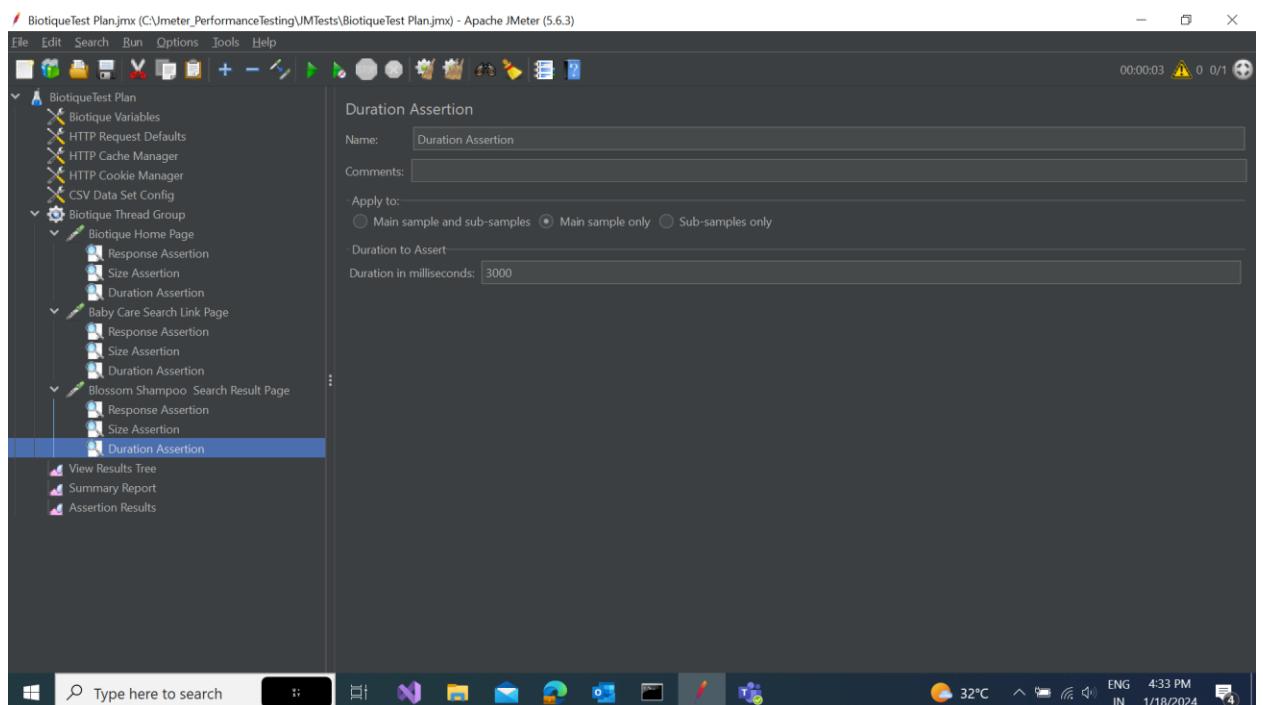
18. Created Assertion named Response Assertion and checked Status code equal to 200.



19. Created Size Assertion and checked Size in bytes less than or equal to 300000.



20. Created Duration Assertion by giving milliseconds as 3000.



21. Created Listener named View Results Tree

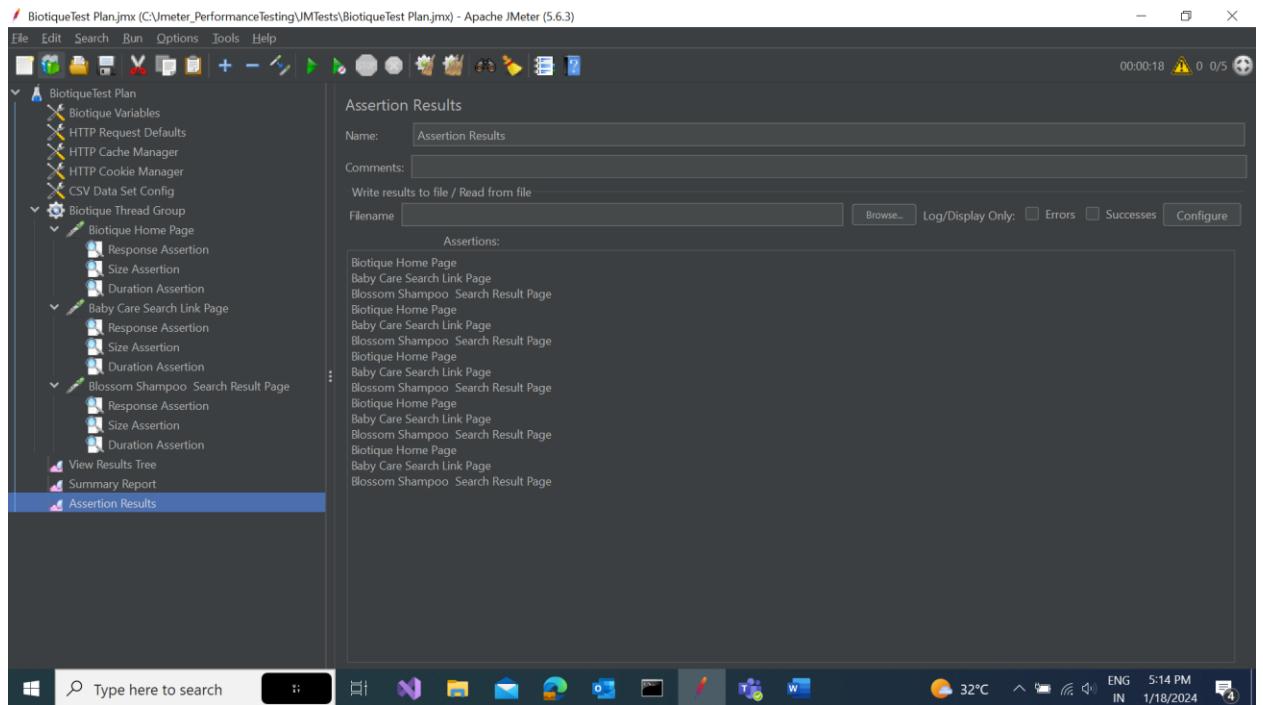
The screenshot shows the Apache JMeter interface with the 'BiotiqueTest Plan.jmx' file open. The left sidebar displays the test plan structure under 'BiotiqueTest Plan'. The 'View Results Tree' listener is selected, highlighted with a blue background. The main panel shows the 'View Results Tree' configuration dialog. The 'Name' field is set to 'View Results Tree'. The 'Comments' field is empty. The 'Write results to file / Read from file' section includes a 'Filename' input field, a 'Browse...' button, and checkboxes for 'Log/Display Only', 'Errors', and 'Successes'. Below these are search and filter options. The results tree itself lists various sampler results, including 'Biotique Home Page', 'Baby Care Search Link Page', 'Blossom Shampoo Search Result Page', and several entries for 'Biotique Home Page' and 'Blossom Shampoo Search Result Page'. The status bar at the bottom indicates '00:00:18' and '0 0/5'.

22. Created Listener named Summary Report

The screenshot shows the Apache JMeter interface with the 'BiotiqueTest Plan.jmx' file open. The left sidebar displays the test plan structure under 'BiotiqueTest Plan'. The 'Summary Report' listener is selected, highlighted with a blue background. The main panel shows the 'Summary Report' configuration dialog. The 'Name' field is set to 'Summary Report'. The 'Comments' field is empty. The 'Write results to file / Read from file' section includes a 'Filename' input field, a 'Browse...' button, and checkboxes for 'Log/Display Only', 'Errors', and 'Successes'. Below these are search and filter options. The results table displays performance metrics for various samplers. The columns include Label, # Samples, Average, Min, Max, Std. Dev., Error %, Throughput, Received KB/s, Sent KB/sec, and Avg. Bytes. The data shows results for 'Biotique Home Page', 'Baby Care Search Link Page', and 'Blossom Shampoo Search Result Page', along with a total row. The status bar at the bottom indicates '00:00:18' and '0 0/5'.

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/s	Sent KB/sec	Avg. Bytes
Biotique Ho...	5	1034	843	1519	249.30	0.00%	17.9/min	101.80	0.07	353228.2
Baby Care S...	5	523	343	1059	268.87	0.00%	18.9/min	41.02	0.27	133058.6
Blossom Sh...	5	1051	928	1264	137.02	0.00%	19.1/min	58.87	0.31	189369.4
TOTAL	15	869	343	1519	333.10	0.00%	49.2/min	180.38	0.56	225218.7

23. Created Listener named Assertion Results

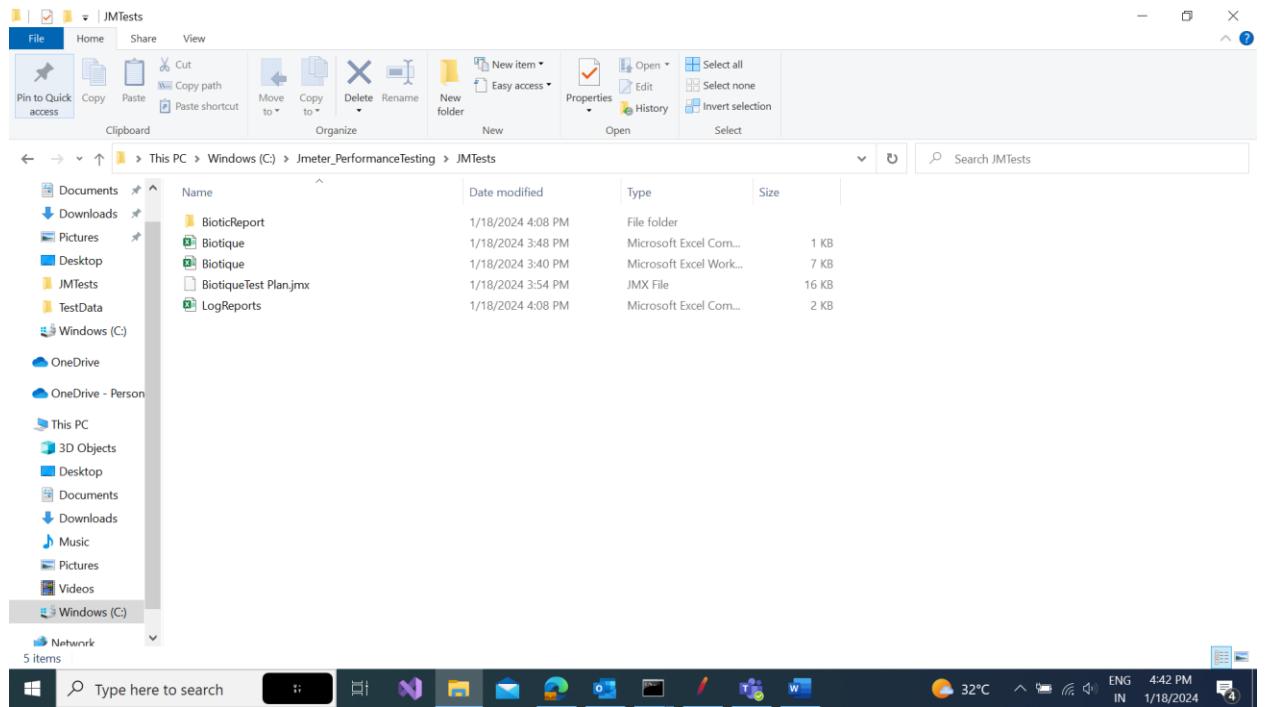


24. For creating Log Reports and Extent Reports for the Project.

```
C:\Windows\System32\cmd.exe
C:\apache-jmeter-5.6.3\bin>jmeter -n -t "C:\Jmeter_PerformanceTesting\JMTests\BiotiqueTest Plan.jmx" -l "C:\Jmeter_PerformanceTesting\JMTests\LogReports.csv" -e -o "C:\Jmeter_PerformanceTesting\JMTests\BioticReport"
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
Creating summariser <summary>
Created the tree successfully using C:\Jmeter_PerformanceTesting\JMTests\BiotiqueTest Plan.jmx
Starting standalone test @ 2024 Jan 18 16:08:12 IST (1705574292008)
Waiting for possible Shutdown/StopTestNow/HeapDump/ThreadDump message on port 4445
summary =      3 in 00:00:04 =    0.7/s Avg: 1415 Min: 963 Max: 1891 Err: 0 (0.00%)
Tidying up ... @ 2024 Jan 18 16:08:16 IST (1705574296515)
... end of run

C:\apache-jmeter-5.6.3\bin>
```

25. The log report file named LogReports.csv and Biotic Report folder are generated automatically by executing in non-gui.



26. The LogReports.csv file generated.

	timeStamp	elapsed	label	response	responseNr	threadNr	dataType	success	failure	Me:bytes	sentBytes	grpThread	allThreads	URL	latency	idleTime	connect
2	1.71E+12	2057	Biotic H	200	OK	Biotique	T text	TRUE		353223	232	1	1	https://www.biotic.com	801	0	590
3	1.71E+12	801	Biotic H	301	Moved Pe	Biotique	T text	TRUE		1532	114	1	1	https://www.biotic.com	801	0	590
4	1.71E+12	1251	Biotic H	200	OK	Biotique	T text	TRUE		351691	118	1	1	https://www.biotic.com	1054	0	328
5	1.71E+12	1191	Baby Care	200	OK	Biotique	T text	TRUE		133132	876	1	1	https://www.biotic.com	333	0	0
6	1.71E+12	333	Baby Care	301	Moved Pe	Biotique	T text	TRUE		1574	428	1	1	https://www.biotic.com	333	0	0
7	1.71E+12	857	Baby Care	200	OK	Biotique	T text	TRUE		131558	448	1	1	https://www.biotic.com	734	0	0
8	1.71E+12	899	Biotic H	200	OK	Biotique	T text	TRUE		353217	232	2	2	https://www.biotic.com	290	0	148
9	1.71E+12	290	Biotic H	301	Moved Pe	Biotique	T text	TRUE		1532	114	2	2	https://www.biotic.com	290	0	148
10	1.71E+12	608	Biotic H	200	OK	Biotique	T text	TRUE		351685	118	2	2	https://www.biotic.com	398	0	149
11	1.71E+12	301	Baby Care	200	OK	Biotique	T text	TRUE		133038	876	2	2	https://www.biotic.com	138	0	0
12	1.71E+12	138	Baby Care	301	Moved Pe	Biotique	T text	TRUE		1552	428	2	2	https://www.biotic.com	138	0	0
13	1.71E+12	162	Baby Care	200	OK	Biotique	T text	TRUE		131486	448	2	2	https://www.biotic.com	156	0	0
14	1.71E+12	2225	Blossom S	200	OK	Biotique	T text	TRUE		189379	990	2	2	https://www.blossom.com	138	0	0
15	1.71E+12	138	Blossom S	301	Moved Pe	Biotique	T text	TRUE		1614	458	2	2	https://www.blossom.com	138	0	0
16	1.71E+12	2086	Blossom S	200	OK	Biotique	T text	TRUE		187765	532	2	2	https://www.blossom.com	1919	0	0
17	1.71E+12	907	Blossom S	200	OK	Biotique	T text	TRUE		189345	990	1	1	https://www.blossom.com	131	0	0
18	1.71E+12	131	Blossom S	301	Moved Pe	Biotique	T text	TRUE		1610	458	1	1	https://www.blossom.com	131	0	0
19	1.71E+12	774	Blossom S	200	OK	Biotique	T text	TRUE		187735	532	1	1	https://www.blossom.com	616	0	0
20	1.71E+12	1157	Biotic H	200	OK	Biotique	T text	TRUE		353220	232	1	1	https://www.biotic.com	420	0	136

27. The report generated.

The screenshot shows a Microsoft Edge browser window displaying a performance test report for 'Biotique'. The title bar includes tabs for 'MakeMyLabs', 'biotique - Search', 'Buy Apple Blossom Shampoo fo...', and 'Biotique Dashboard'. The main content area is titled 'Biotique Dashboard' and contains three main sections:

- Test and Report information:** A table showing details from a CSV file: Source file ("LogReports.csv"), Start Time ("1/18/24, 5:15 PM"), End Time ("1/18/24, 5:16 PM"), and Filter for display ("").
- APDEX (Application Performance Index):** A table showing three rows of data:

Apdex	T (Toleration threshold)	F (Frustration threshold)	Label
0.711	500 ms	1 sec 500 ms	Total
0.400	500 ms	1 sec 500 ms	Biotique Home Page
0.400	500 ms	1 sec 500 ms	Blossom Shampoo Search
- Requests Summary:** A large green circle indicating 100% success rate, with a legend showing a red square for 'FAIL' and a green square for 'PASS'.

The taskbar at the bottom shows various pinned icons and the system clock indicating 5:16 PM on 1/18/2024.