

Practical 7

Name: Vedant Murai

stems.

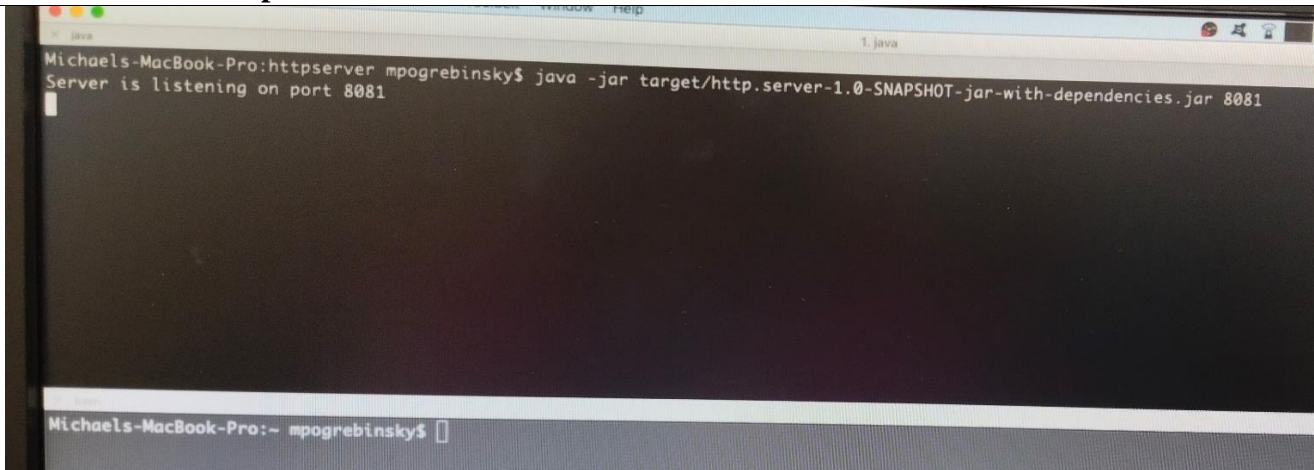
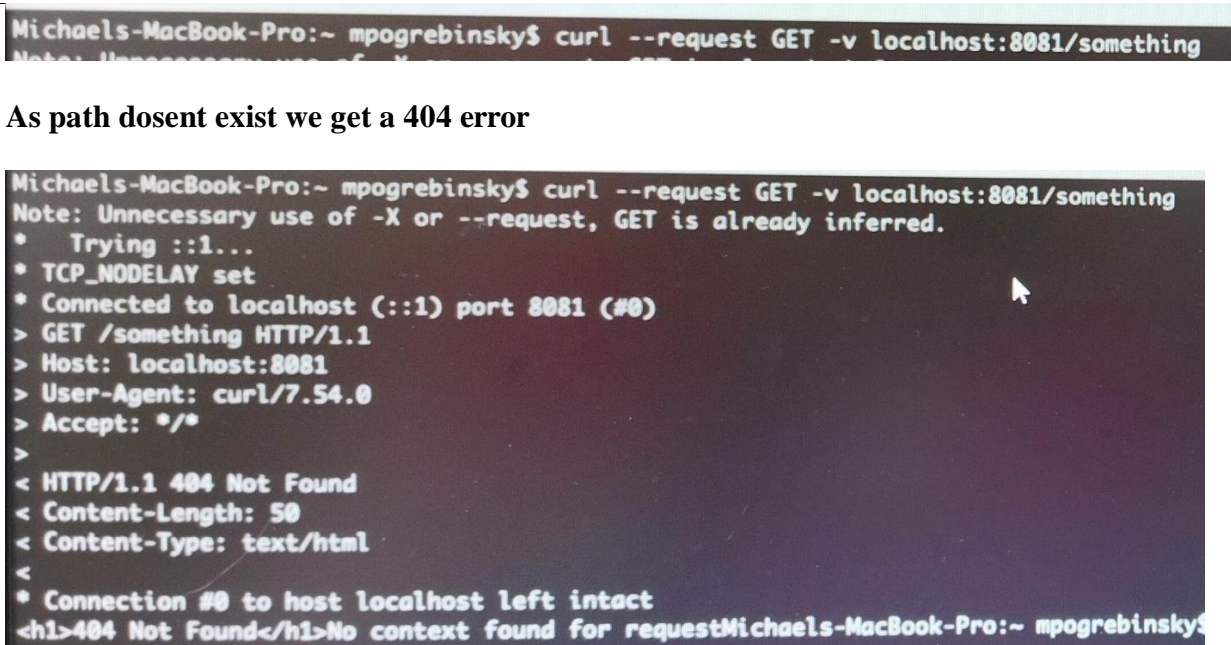
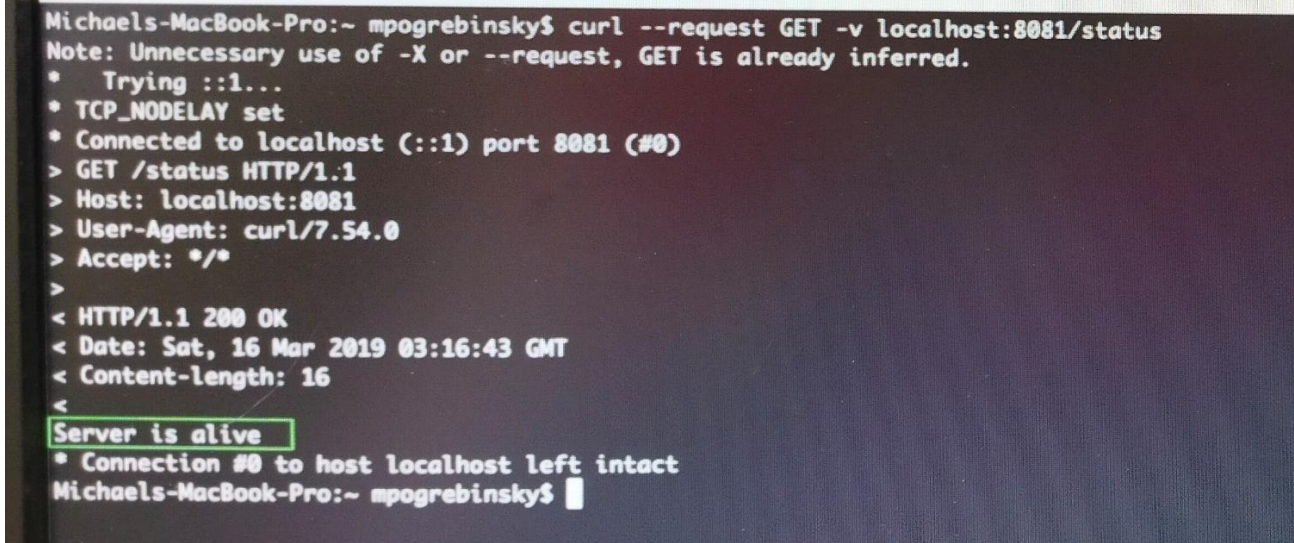
Roll no: 64

Branch: CSE (Data Science).

Aim: Network management using HTTP Server Custom Header in distributed environment.

Output: On next page.

Output:

	Output:
1.	Start the server at port 8081
	 A terminal window on a Mac. The prompt is 'Michaels-MacBook-Pro:~ mpogrebinsky\$'. The user enters 'java -jar target/http.server-1.0-SNAPSHOT-jar-with-dependencies.jar 8081'. The output is 'Server is listening on port 8081'. The prompt returns.
2.	Sending Get request with Curl Argument with a path:
	 A terminal window showing a curl command: 'curl --request GET -v localhost:8081/something'. The output shows the request details and a '404 Not Found' response. The text 'As path dosent exist we get a 404 error' is written below the screenshot. The terminal output includes: 'Note: Unnecessary use of -X or --request, GET is already inferred.', 'Trying ::1...', 'TCP_NODELAY set', 'Connected to localhost (::1) port 8081 (#0)', 'GET /something HTTP/1.1', 'Host: localhost:8081', 'User-Agent: curl/7.54.0', 'Accept: */*', 'HTTP/1.1 404 Not Found', 'Content-Length: 50', 'Content-Type: text/html', 'Connection #0 to host localhost left intact', and '<h1>404 Not Found</h1>No context found for request'.
3.	Sending Get request with Curl Argument with a path: status
	 A terminal window showing a curl command: 'curl --request GET -v localhost:8081/status'. The output shows the request details and a '200 OK' response. The text 'Server is alive' is highlighted in a green box. The terminal output includes: 'Note: Unnecessary use of -X or --request, GET is already inferred.', 'Trying ::1...', 'TCP_NODELAY set', 'Connected to localhost (::1) port 8081 (#0)', 'GET /status HTTP/1.1', 'Host: localhost:8081', 'User-Agent: curl/7.54.0', 'Accept: */*', 'HTTP/1.1 200 OK', 'Date: Sat, 16 Mar 2019 03:16:43 GMT', 'Content-length: 16', 'Server is alive', and 'Connection #0 to host localhost left intact'.
4.	Sending a POST request to task endpoint.


```
Michaels-MacBook-Pro:~ mpogrebinsky$ curl --request POST -v --data '50,100' localhost:8081/task
Note: Unnecessary use of -X or --request, POST is already inferred.
* Trying ::1...
* TCP_NODELAY set
* Connected to localhost (::1) port 8081 (#0)
> POST /task HTTP/1.1
> Host: localhost:8081
> User-Agent: curl/7.54.0
> Accept: */*
> Content-Length: 6
> Content-Type: application/x-www-form-urlencoded
>
* upload completely sent off: 6 out of 6 bytes
< HTTP/1.1 200 OK
< Date: Tue, 12 Mar 2019 15:49:29 GMT
< Content-length: 37
<
Result of the multiplication is 5000
* Connection #0 to host localhost left intact
Michaels-MacBook-Pro:~ mpogrebinsky$
```

5. Testing Header with value "X-test:true"

```
Michaels-MacBook-Pro:~ mpogrebinsky$ curl --request POST -v --header "X-Test: true" --data '50,100' localhost:8081/task
Note: Unnecessary use of -X or --request, POST is already inferred.
* Trying ::1...
* TCP_NODELAY set
* Connected to localhost (::1) port 8081 (#0)
> POST /task HTTP/1.1
> Host: localhost:8081
> User-Agent: curl/7.54.0
> Accept: */*
> X-Test: true
> Content-Length: 6
> Content-Type: application/x-www-form-urlencoded
>
* upload completely sent off: 6 out of 6 bytes
< HTTP/1.1 200 OK
< Date: Tue, 12 Mar 2019 15:49:54 GMT
< Content-length: 4
<
123
* Connection #0 to host localhost left intact
Michaels-MacBook-Pro:~ mpogrebinsky$
```

6. Changing header from test to debug.

```
Michaels-MacBook-Pro:~ mpogrebinsky$ curl --request POST -v --header "X-Debug: true" --data '50,100' localhost:8081/task
```

```
* Trying ::1...
* TCP_NODELAY set
* Connected to localhost (::1) port 8081 (#0)
> POST /task HTTP/1.1
> Host: localhost:8081
> User-Agent: curl/7.54.0
> Accept: */*
> X-Debug: true
> Content-Length: 6
> Content-Type: application/x-www-form-urlencoded
>
* upload completely sent off: 6 out of 6 bytes
< HTTP/1.1 200 OK
< Date: Tue, 12 Mar 2019 15:50:10 GMT
< X-debug-info: Operation took 246483 ns
* no chunk, no close, no size. Assume close to signal end
<
Content-length: 37

Result of the multiplication is 5000
```