

Exercise 3:

1. mkdir ServerLogs
2. cd ServerLogs
3. mkdir AccessLogs, ErrorLogs, Reports.
5. cd AccessLogs,
6. touch access.log
notepad++ access.log then copy the data from the data file.
7. Head -10 access.log

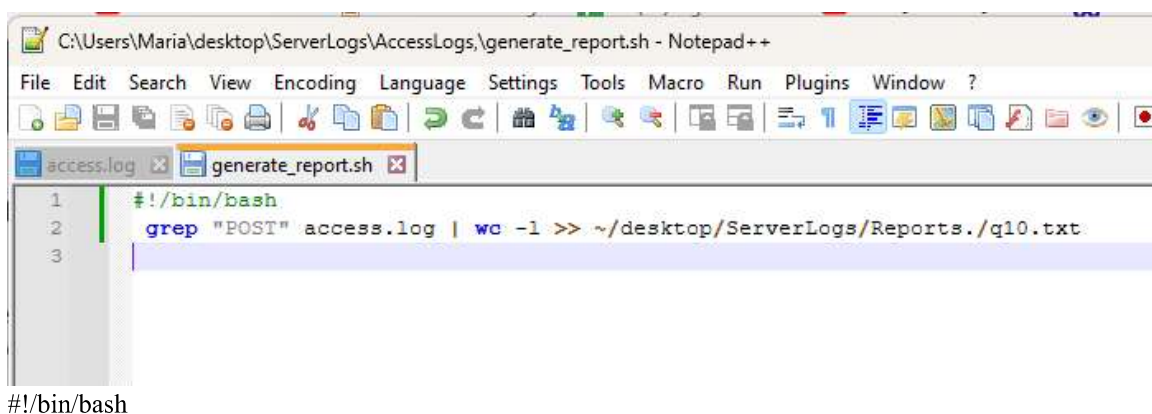
```
Maria@DESKTOP-U5E83N4 MINGW64 ~/desktop/ServerLogs/AccessLogs,
$ Head -10 access.log
[2023-08-20 10:15:23] 192.168.1.100 - - "GET /index.html" 200 1345
[2023-08-20 10:17:42] 192.168.1.102 - - "GET /about.html" 200 987
[2023-08-20 10:20:11] 192.168.1.105 - - "POST /api/update" 201 564
[2023-08-20 10:22:37] 192.168.1.103 - - "GET /products" 200 2245
[2023-08-20 10:25:18] 192.168.1.101 - - "GET /contact.html" 200 732
[2023-08-20 10:27:59] 192.168.1.104 - - "POST /api/create" 201 890
[2023-08-20 10:30:27] 192.168.1.100 - - "GET /blog" 200 1765
[2023-08-20 10:33:05] 192.168.1.102 - - "GET /faq.html" 200 432
[2023-08-20 10:35:42] 192.168.1.105 - - "PUT /api/update/123" 204 320
[2023-08-20 10:38:19] 192.168.1.103 - - "GET /services" 200 1547
```

8. Grep "GET" access.log

```
Maria@DESKTOP-U5E83N4 MINGW64 ~/desktop/ServerLogs/AccessLogs,
$ Grep "GET" access.log
[2023-08-20 10:15:23] 192.168.1.100 - - "GET /index.html" 200 1345
[2023-08-20 10:17:42] 192.168.1.102 - - "GET /about.html" 200 987
[2023-08-20 10:22:37] 192.168.1.103 - - "GET /products" 200 2245
[2023-08-20 10:25:18] 192.168.1.101 - - "GET /contact.html" 200 732
[2023-08-20 10:30:27] 192.168.1.100 - - "GET /blog" 200 1765
[2023-08-20 10:33:05] 192.168.1.102 - - "GET /faq.html" 200 432
[2023-08-20 10:38:19] 192.168.1.103 - - "GET /services" 200 1547
[2023-08-20 10:40:51] 192.168.1.101 - - "GET /pricing.html" 200 978
[2023-08-20 10:46:07] 192.168.1.100 - - "GET /dashboard" 200 2012
[2023-08-20 10:48:44] 192.168.1.102 - - "GET /terms.html" 200 654
[2023-08-20 10:53:59] 192.168.1.103 - - "GET /portfolio" 200 1134
[2023-08-20 10:56:37] 192.168.1.101 - - "GET /privacy.html" 200 789
[2023-08-20 11:01:42] 192.168.1.100 - - "GET /admin" 403 567
[2023-08-20 11:04:21] 192.168.1.102 - - "GET /404.html" 404 76
[2023-08-20 11:09:38] 192.168.1.103 - - "GET /support" 200 982
[2023-08-20 11:12:16] 192.168.1.101 - - "GET /sitemap.xml" 200 356
[2023-08-20 11:17:31] 192.168.1.100 - - "GET /profile" 200 1456
[2023-08-20 11:20:08] 192.168.1.102 - - "GET /login.html" 200 632
[2023-08-20 11:25:23] 192.168.1.103 - - "GET /home" 200 987
[2023-08-20 11:28:01] 192.168.1.101 - - "GET /search.html" 200 432
```

9. grep "192.168.1.104" access.log | wc -l **5**

10. notepad++ generate_report.sh



The screenshot shows a Notepad++ window titled "C:\Users\Maria\Desktop\ServerLogs\AccessLogs\generate_report.sh - Notepad++". The menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Tools, Macro, Run, Plugins, and Window. The toolbar contains various icons for file operations and editing. The script content is as follows:

```
1  #!/bin/bash
2  grep "POST" access.log | wc -l >> ~/desktop/ServerLogs/Reports./q10.txt
3
```

Below the script, the text "#!/bin/bash" is entered in the editor.

```
grep "POST" access.log | wc -l >> ~/desktop/ServerLogs/Reports./q10.txt
```

11. `chmod +x generate_report.sh`

12. `./generate_report.sh`

```
Maria@DESKTOP-U5E83N4 MINGW64 ~/desktop/ServerLogs/AccessLogs,
$ ls ~/desktop/ServerLogs/Reports.
q10.txt

Maria@DESKTOP-U5E83N4 MINGW64 ~/desktop/ServerLogs/AccessLogs,
$ cat ~/desktop/ServerLogs/Reports./q10.txt
6
```

13. `cd ~/desktop/ServerLogs/ErrorLogs,`

14. `notepad++ error_summary.txt` then copy the data from the error data file.

15. ---

16. ---

17. `du -sh ~/desktop/ServerLogs`

```
Maria@DESKTOP-U5E83N4 MINGW64 ~/desktop/ServerLogs/ErrorLogs,
$ du -sh ~/desktop/ServerLogs
14K    /c/Users/Maria/desktop/ServerLogs
```