Exercise 1:
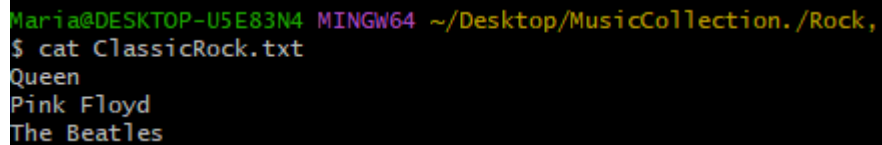
1. --
2. mkdir SecretHideout   creating a directory
3. cd SecretHideout   Move into the directory
4. mkdir "MissionReports," "TopSecretFiles," "Tools."   create three directories inside the hideout
5. ls   List the contents of the "SecretHideout" directory

```
Maria@DESKTOP-U5E83N4 MINGW64 ~/Desktop/SecretHideout
$ ls
MissionReports,/  Tools./  TopSecretFiles,/
```

6. cd TopSecretFiles,   Move into the "TopSecretFiles" directory
7. touch AgentList.txt Create a file named "AgentList.txt"
8. echo " Maria Dahmosh, Agent2Name, Agent2Name" >> AgentList.txt Add your name and two other agent names to "AgentList.txt".
9. cat AgentList.txt   display the contents of "AgentList.txt"
10. cd .. Return to the "SecretHideout" directory
11. touch MissionReports/MissionBriefing.txt   Create a text file named "MissionBriefing.txt" inside the "MissionReports" directory.
12. echo "example for mission briefing message text" >> MissionReports,/MissionBriefing.txt Add a mission briefing message to "MissionBriefing.txt"
13. cat MissionReports,/MissionBriefing.txt Display the contents of "MissionBriefing.txt" directly in the terminal.
14. mv MissionReports,/MissionBriefing.txt TopSecretFiles, move "MissionBriefing.txt" to the "TopSecretFiles" directory.
15. mv TopSecretFiles,/AgentList.txt TopSecretFiles,/AgentRoster.txt Rename "AgentList.txt" to "AgentRoster.txt".
16. rmdir Tools. Remove the "Tools" directory and its contents.
17. ls / ls –al Display the contents of the "SecretHideout" directory Display the contents of the "SecretHideout" directory.
18. we can move all text files in the directory by using *

    mv TopSecretFiles,/*.txt MissionReports,

19. cd MissionReports, navigate to MissionReports
20. less * Display the contents of the directory
21. pwd >>CurrentLocation.txt Display the current directory path, and redirect (save) the output to a file named "CurrentLocation.txt".
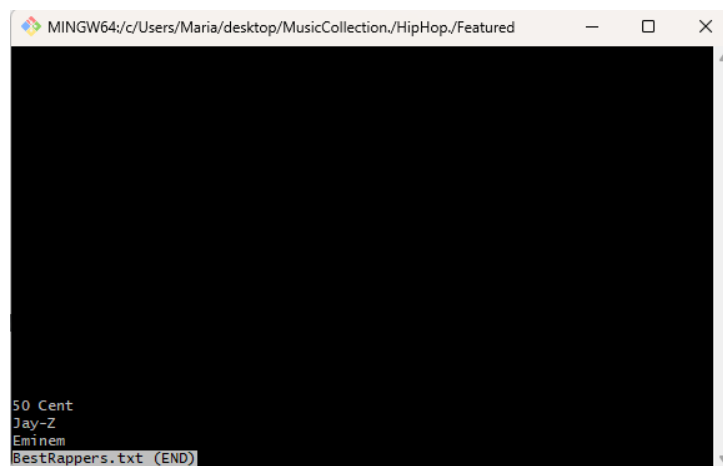
Exercise 2:

1. mkdir MusicCollection.
2. cd MusicCollection.
3. mkdir Classical Rock, Pop, HipHop.
4. cd Rock,
5. touch ClassicRock.txt
6. echo "Queen
   Pink Floyd
   The Beatles" >> ClassicRock.txt
7. cat ClassicRock.txt

```
Maria@DESKTOP-U5E83N4 MINGW64 ~/Desktop/MusicCollection./Rock,
$ cat ClassicRock.txt
Queen
Pink Floyd
The Beatles
```

8. cd ..
9. touch Pop,/Top40.txt
10. echo "Bruno Mars
    Taylor Swift
    Rihana" >> Pop,/Top40.txt
11. cat Pop,/Top40.txt
12. mv Rock,/ClassicRock.txt Pop,
13. mv Pop,/Top40.txt Pop,/HitSongs.txt
14. mkdir HipHop./Featured
15. cd HipHop./Featured
16. touch BestRappers.txt
17. echo "50 Cent
    Jay-Z
    Eminem" >> BestRappers.txt
18. less BestRappers.txt

```
MINGW64:/c/Users/Maria/desktop/MusicCollection./HipHop./Featured        —    □    ×




50 Cent
Jay-Z
Eminem
BestRappers.txt (END)
```

19. cd ~/desktop/MusicCollection./Rock,
    rm -r ~/desktop/MusicCollection./HipHop./*
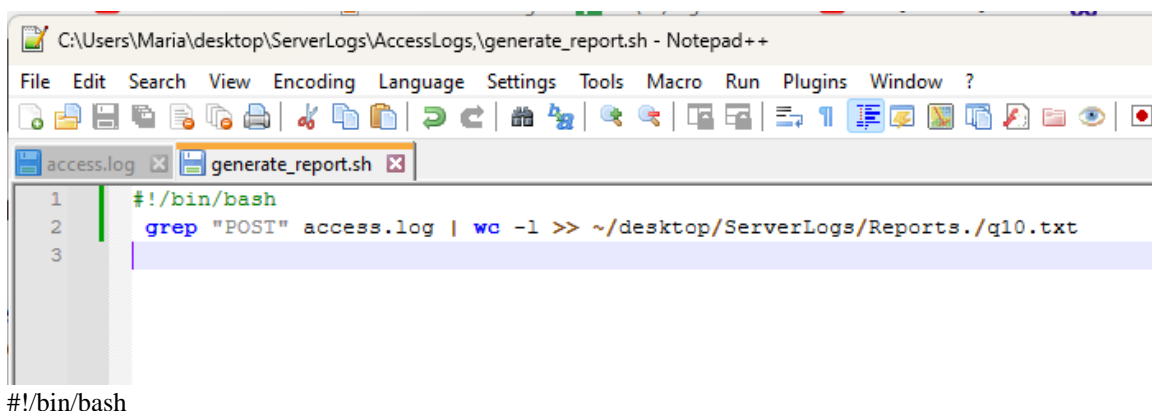
Exercise 3:

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

```
C:\Users\Maria\desktop\ServerLogs\AccessLogs,\generate_report.sh - Notepad++
File  Edit  Search  View  Encoding  Language  Settings  Tools  Macro  Run  Plugins  Window  ?

access.log    generate_report.sh

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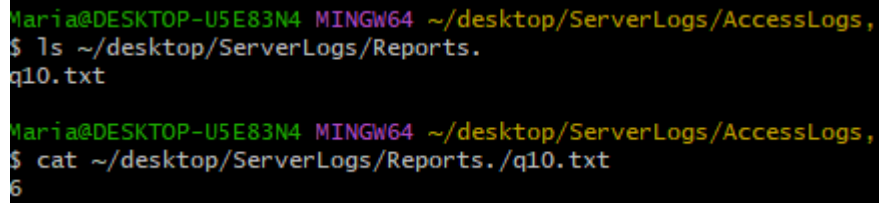
#!/bin/bash

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
```
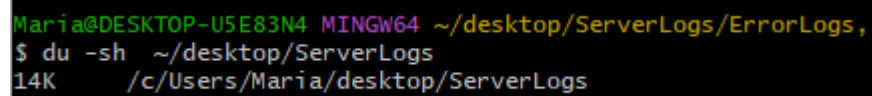
13. cd ~/desktop/ServerLogs/ErrorLogs,
14. notepad++ error_summary.txt   then copy the data from the error data file.
15. ---
16. ---
17. du –sh ~/desktop/ServerLogs

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