

Shell Sheet

1. Write shell commands for the following:

(i) Create a directory in your home directory having 2 subdirectories.

```
ubuntu@ahmed:~$ cd Desktop
ubuntu@ahmed:~/Desktop$ mkdir ahmed
ubuntu@ahmed:~/Desktop$ cd ahmed
ubuntu@ahmed:~/Desktop/ahmed$ mkdir a1
ubuntu@ahmed:~/Desktop/ahmed$ mkdir a2
```

(ii) In the first sub directory create 3 different files with different content in each of them.

```
ubuntu@ahmed:~/Desktop/ahmed$ cd a1
ubuntu@ahmed:~/Desktop/ahmed/a1$ cat >file1.txt
This is first file
^C
ubuntu@ahmed:~/Desktop/ahmed/a1$ cat >file2.txt
This is second file
^C
ubuntu@ahmed:~/Desktop/ahmed/a1$ cat >file3.txt
This is third file
^C
```

(iii) Copy the first file from the first subdirectory to the second subdirectory.

```
ubuntu@ahmed:~/Desktop/ahmed/a1$ cp file1.txt ../a2
ubuntu@ahmed:~/Desktop/ahmed/a1$ cd ..
ubuntu@ahmed:~/Desktop/ahmed$ cd a2
ubuntu@ahmed:~/Desktop/ahmed/a2$ ls
file1.txt
ubuntu@ahmed:~/Desktop/ahmed/a2$ cat file1.txt
This is first file
```

(iv) Create one more file in the second subdirectory which has the output of the number of users and number of files.

```
ubuntu@ahmed:~/Desktop/ahmed/a2$ ls >mohamed.txt
ubuntu@ahmed:~/Desktop/ahmed/a2$ cat mohamed.txt
file1.txt
mohamed.txt
ubuntu@ahmed:~/Desktop/ahmed/a2$ ls |wc -l
2
```

(v) List all the files which start with either a or A.

```
ubuntu@ahmed:~/Desktop$ cat >ahmed.txt
ahmed's file
^C
ubuntu@ahmed:~/Desktop$ cat >file5.txt
file5
^C
ubuntu@ahmed:~/Desktop$ cat >Amr.txt
Amr's file
^C
ubuntu@ahmed:~/Desktop$ ls |grep a
ahmed
ahmed.txt
ubuntu@ahmed:~/Desktop$ ls |grep A
Ahmed_Husien_Ahmed_Hussien
Amr.txt
```

(vi) Count the number of files in the current directory.

```
ubuntu@ahmed:~/Desktop$ cd ahmed
ubuntu@ahmed:~/Desktop/ahmed$ cd a2
ubuntu@ahmed:~/Desktop/ahmed/a2$ ls |wc -l
2
ubuntu@ahmed:~/Desktop/ahmed/a2$ cd ..
ubuntu@ahmed:~/Desktop/ahmed$ cd a1
ubuntu@ahmed:~/Desktop/ahmed/a1$ ls |wc -l
3
```

2. Execute the following commands in sequence:

i) date

ii) ls

iii) pwd

```
ubuntu@ahmed:~$ pwd
/home/ubuntu
ubuntu@ahmed:~$ date
Wed 28 Apr 2021 10:20:07 PM PDT
ubuntu@ahmed:~$ cd Desktop
ubuntu@ahmed:~/Desktop$ ls
ahmed  Ahmed_Husien_Ahmed_Hussien  ahmed.txt  Amr.txt  file5.txt  i.sh
ubuntu@ahmed:~/Desktop$ cd ahmed
ubuntu@ahmed:~/Desktop/ahmed$ ls
a1  a2
```