MAC _OS ASSIGNMENT

Member 1: Muhammad Fahad

(FA19-BSSE-0014)

Member 2: Jaffar Abbas

(FA19-BSSE-0008)

Member 3: Samin Tariq

(FA19-BSSE-0010)

Member 4: Ahmed Amin

(FA19-BSSE-0063)

Course: Operating System Lab

Section: BM

Teacher: Miss Sumra Khan

1.

1.1. Create directories A and B.

```
Last login: Mon Jan 10 12:58:22 on console
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
IMAC-001:~ majustudent$ ls
                Downloads
                                Movies
                                                Pictures
Desktop
Documents
                Library
                                Music
                                                Public
IMAC-001:~ majustudent$ cd Desktop/
IMAC-001:Desktop majustudent$ mkdir mainFolder
IMAC-001:Desktop majustudent$ cd mainFolder/
IMAC-001:mainFolder majustudent$ mkdir A B
IMAC-001:mainFolder majustudent$ ls
IMAC-001:mainFolder majustudent$
```

1.2. Create a file in directory A named Textile using cat command.

```
IMAC-001:A majustudent$ cat > Textile.txt
sdff

IMAC-001:A majustudent$ ls
Textile.txt
IMAC-001:A majustudent$ cat Textile.txt
sdff
```

1.3. Write YOUR PERSONAL INFORMATION in to file.

```
IMAC-001:A majustudent$ cat > Textile.txt
our team name is Jaffar Ahmed Fahad Samin
IMAC-001:A majustudent$ ls
Textile.txt
IMAC-001:A majustudent$ cat Textile.txt
our team name is Jaffar Ahmed Fahad Samin
IMAC-001:A majustudent$
```

1.4. Create text files named file1, file2 and file3 in directory B using touch command.

```
IMAC-001:B majustudent$ touch file1 file2 file3
IMAC-001:B majustudent$ ls
file1  file2  file3
IMAC-001:B majustudent$ cat > file1
this is file 1
IMAC-001:B majustudent$ cat > file2
this is file 2IMAC-001:B majustudent$
```

1.5. Merge files file1, file2 and save it in file3.

```
IMAC-001:B majustudent$ cat file1 file2 > file3
IMAC-001:B majustudent$ cat file3
this is file 1
this is file 2IMAC-001:B majustudent$
IMAC-001:B majustudent$
```

1.6. Create a file and set permissions to the created file of your own choice (using both symbolic and absolute mode)

Symbolic mode

Absolute mode

1.7. Change ownership and group of a file.

```
IMAC-001:B majustudent$ chmod u=w,g=r,o=rw file2
IMAC-001:B majustudent$ ls -1
total 24
-r--r--- 1 majustudent JINNAH\Domain Users 15 Jan 10 13:09 file1
--w-r--rw- 1 majustudent JINNAH\Domain Users 14 Jan 10 13:09 file2
-rw-r--r- 1 majustudent JINNAH\Domain Users 29 Jan 10 13:09 file3
IMAC-001:B majustudent$
```

- 2.
- 2.1. Write a shell script to take a number input from user and then print the table for the given number. I.e. if n=5 then 5*1=5.

Shell script:

```
#!/bin/sh
echo "Table"

read number
start=1
while [ $start -le 10 ]
do
echo "$number x $start = `expr $number \* $start`"
start=`expr $start + 1`
done
```

```
^G Get Help
^X Exit
```

```
O WriteOut
J Justify
```

```
^R Read File
^W Where Is
```







Output:

```
IMAC-001:B majustudent$ nano script.sh
IMAC-001:B majustudent$ bash script.sh
Table
5
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
IMAC-001:B majustudent$
```

3.

3.1. Which pipe of commands would you use to count the number of processes owned by you only? Run the command and count how many processes you own?

majustudent	1427	0.0	0.1	408272096	19408	??	S	12:58PM	0:00.40 /usr/sbin/usernoted
majustudent	1426	0.0	0.1	408233232	20512	??	S	12:58PM	0:00.34 /usr/libexec/routined LAUNCHED_BY_LA
majustudent	1425	0.0	0.1	408238592	18656	??	S	12:58PM	0:00.14 /usr/libexec/rapportd
majustudent	1424	0.0	0.1	408265184	11584	??	S	12:58PM	0:00.53 /System/Library/PrivateFrameworks/Vi
majustudent	1423	0.0	0.0	408060848	4400	??	S	12:58PM	0:00.02 /System/Library/CoreServices/APFSUse
majustudent	1422	0.0	0.2	408279232	30496	??	S	12:58PM	0:00.27 /System/Library/Frameworks/CoreTelep
majustudent	1421	0.0	0.1	408270048	18528	??	S	12:58PM	0:00.58 /usr/libexec/pkd
majustudent	1419	0.0	0.1	408268304	18800	??	S	12:58PM	0:00.52 /usr/libexec/secd
majustudent	1418	0.0	0.1	408272224	18432	??	S	12:58PM	0:04.58 /usr/libexec/trustdagent
majustudent	1417	0.0	0.0	408096160	3904	??	S	12:58PM	0:00.01 /System/Library/Frameworks/CoreServi
majustudent	1416	0.0	0.2	408271392	29376	??	S	12:58PM	0:03.91 /usr/libexec/secinitd
majustudent	1415	0.0	0.1	408741600	18560	??	Ss	12:58PM	0:00.04 /System/Library/Frameworks/QuickLook
majustudent	1414	0.0	0.1	408269792	15936	??	S	12:58PM	0:00.17 /System/Library/PrivateFrameworks/Cl
majustudent	1413	0.0	0.1	408269808	17440	??	S	12:58PM	0:00.52 /usr/libexec/lsd
majustudent	1410	0.0	1.0	409844432	170944	??	S	12:58PM	0:06.44 /System/Library/CoreServices/Finder.
majustudent	1409	0.0	0.2	409118896	28784	??	S	12:58PM	0:00.26 /System/Library/CoreServices/SystemU
majustudent	1407	0.0	0.6	409760208	102000	??	S	12:58PM	0:01.47 /System/Library/CoreServices/Dock.ap
majustudent	1406	0.0	0.1	408275440	15616	??	S	12:58PM	0:00.09 /System/Library/CoreServices/talager
majustudent	1405	0.0	0.2	408271392	29680	??	S	12:58PM	0:00.72 /usr/libexec/knowledge-agent
majustudent	1404	0.0	0.1	408237008	20000	??	S	12:58PM	0:00.30 /System/Library/PrivateFrameworks/Co
majustudent	1403	0.0	0.1	408740352	16368	??	S	12:58PM	0:00.12 /usr/sbin/universalaccessd launchd -
majustudent	1401	0.0	0.1	408267072	18992	??	S	12:58PM	0:00.90 /usr/libexec/UserEventAgent (Aqua)
majustudent	1400	0.0	0.0	408235872	5632	??	S	12:58PM	0:01.96 /usr/sbin/cfprefsd agent
root	1820	0.0	0.0	408628304	1808	s000	R+	1:25PM	0:00.01 ps ux
majustudent	1399	0.0	0.0	408170368	6240	??	S	12:58PM	0:01.07 /usr/sbin/distnoted agent
majustudent	1678	0.0	0.0	408238864	5584	??	S	1:03PM	0:00.02 /System/Library/Frameworks/ColorSync
IMAC-001:B m	najustu	dent\$	ps u	x wc -1					
100				20					

IMAC-001:B majustudent\$