

Bash Script

Lab 1

Name: Samaa Hany Seif Elyazal

Q1

```
samaa@DESKTOP-HLF0E6L: ~  
GNU nano 4.8  
#!/bin/bash  
read -p "Enter your name please: " name  
echo "Hello $name"
```

```
samaa@DESKTOP-HLF0E6L:~$ ./LAB_1.sh  
Enter your name please: Samaa  
Hello Samaa  
samaa@DESKTOP-HLF0E6L:~$
```

Q2

```
samaa@DESKTOP-HLF0E6L:~$ touch s1.sh  
samaa@DESKTOP-HLF0E6L:~$ chmod +x s1.sh  
samaa@DESKTOP-HLF0E6L:~$ nano s1.sh
```

```
samaa@DESKTOP-HLF0E6L:~$ touch s2.sh  
samaa@DESKTOP-HLF0E6L:~$ chmod +x s2.sh  
samaa@DESKTOP-HLF0E6L:~$ nano s2.sh
```

```
samaa@DESKTOP-HLF0E6L: ~  
GNU nano 4.8  
#!/bin/bash  
  
x=5  
echo $x
```

```
samaa@DESKTOP-HLF0E6L: ~  
GNU nano 4.8  
#!/bin/bash  
  
echo "s1 script"  
#./s1.sh  
source s1.sh
```

```
samaa@DESKTOP-HLF0E6L: ~  
GNU nano 4.8  
#!/bin/bash  
  
echo "s1 script"  
./s1.sh
```

```
samaa@DESKTOP-HLF0E6L:~$ bash s2.sh  
s1 script  
5
```

Q3

```
samaa@DESKTOP-HLF0E6L:~$ mkdir Q3  
samaa@DESKTOP-HLF0E6L:~$ nano mycp.sh  
samaa@DESKTOP-HLF0E6L:~$ bash mycp.sh  
samaa@DESKTOP-HLF0E6L:~$ nano Q3
```

```
samaa@DESKTOP-HLF0E6L:~$ cd Q3  
samaa@DESKTOP-HLF0E6L:~/Q3$ ls  
Q3_1.txt Q3_2.txt  
samaa@DESKTOP-HLF0E6L:~/Q3$
```

```
samaa@DESKTOP-HLF0E6L: ~
GNU nano 4.8
#!/bin/bash

cp Q3_1.txt Q3_2.txt
cp Q3_1.txt Q3_2.txt Q3/
```

```
samaa@DESKTOP-HLF0E6L: ~
GNU nano 4.8
#Q3_2.txt
Name: Samaa Hany
Track: WCE
Intake: 42
```

```
samaa@DESKTOP-HLF0E6L: ~
GNU nano 4.8
#Q3_1.txt
Graduation year: 2021
BoD: 02 Feb 1998
```

Q4

```
samaa@DESKTOP-HLF0E6L:~$ ./mycd.sh Q4
Invalid
samaa@DESKTOP-HLF0E6L:~/Q4$ cd
samaa@DESKTOP-HLF0E6L:~$
```

```
samaa@DESKTOP-HLF0E6L: ~
GNU nano 4.8
#!/bin/bash

if [ -z "$1" ]
then
echo $HOME
cd $HOME
else
echo "Invalid"
cd $1
fi
exec bash
```

Q5

```
samaa@DESKTOP-HLF0E6L:~$ ./myls.sh
/home/samaa
LAB1.sh LAB2.sh LAB4.sh LAB6.sh LAB8.sh LAB_1.sh Q3_1.txt Q4 ReadInput.sh.save mycd.sh myls.sh s2.sh
cript.sh.save
LAB11.sh LAB3.sh LAB5.sh LAB7.sh LAB9.sh Q3 Q3_2.txt ReadInput.sh arg.sh mycp.sh s1.sh script.sh
samaa@DESKTOP-HLF0E6L:~$ ./myls.sh Q3
Q3_1.txt Q3_2.txt
```

```
samaa@DESKTOP-HLF0E6L: ~
GNU nano 4.8
#!/bin/bash

if [ -z "$1" ]
then
echo $HOME
ls $HOME
else
ls $1
fi
exec bash
```

Q6

```
samaa@DESKTOP-HLF0E6L:~$ ./mys.sh -a samaa
.          .bash_logout  .motd_shown  LAB11.sh  LAB5.sh  LAB9.sh  Q3_2.txt  arg.sh  myls.sh  script.sh
..         .bashrc      .profile     LAB2.sh  LAB6.sh  LAB_1.sh  Q4        mycd.sh  mytest.sh  script.sh.save
LAB113.sh.swp .landscape .sudo_as_admin_successful LAB3.sh  LAB7.sh  Q3       ReadInput.sh  mycp.sh  s1.sh  test.txt
.bash_history .local    LAB1.sh    LAB4.sh  LAB8.sh  Q3_1.txt  ReadInput.sh.save  myinfo.sh  s2.sh  tmp
samaa@DESKTOP-HLF0E6L:~$ ./mys.sh -l samaa
total 112
-rwxrwxr-x 1 samaa samaa 161 Feb 26 13:59 LAB1.sh
-rwxr-xr-x 1 samaa samaa 356 Feb 27 11:50 LAB11.sh
-rwxr-xr-x 1 samaa samaa 71 Feb 26 13:56 LAB2.sh
-rwxr-xr-x 1 samaa samaa 358 Feb 26 14:51 LAB3.sh
-rwxr-xr-x 1 samaa samaa 242 Feb 26 15:51 LAB4.sh
```

samaa@DESKTOP-HLF0E6L: ~

GNU nano 4.8

#!/bin/bash

```
if [ -z "$1" ]
then
echo $HOME
ls $HOME
else
ls $1
fi
exec bash
```

Q7

samaa@DESKTOP-HLF0E6L: ~

GNU nano 4.8

#!/bin/bash

Q7

```
if [ -d "$1" ]
then
echo "It is Directory"
elif [ -f "$1" ]
then
echo "It is File"
fi

if [ -w "$1" -a -r "$1" -a -x "$1" ]
then
echo "Read and Write and Excute permission"
elif [ -w "$1" -a -r "$1" ]
then
echo "Read and Write permission"
elif [ -w "$1" -a -x "$1" ]
then
echo "Excute and Write permission"
elif [ -x "$1" -a -r "$1" ]
then
echo "Read and Excute permission"
elif [ -w "$1" ]
then
echo "Write permission only"
elif [ -r "$1" ]
then
echo "Read permission only"
elif [ -x "$1" ]
then
echo "Excute permission only"
fi
```

```
samaa@DESKTOP-HLF0E6L:~$ ls -l test.txt
-rw-r--r-- 1 samaa samaa 0 Feb 27 16:28 test.txt
samaa@DESKTOP-HLF0E6L:~$ ./mytest.sh Q3
It is Directory
Read and Write and Excute permission
samaa@DESKTOP-HLF0E6L:~$ ./mytest.sh test.txt
It is File
Read and Write permission
samaa@DESKTOP-HLF0E6L:~$
```

Q8

```
samaa@DESKTOP-HLF0E6L: ~
GNU nano 4.8
#!/bin/bash

read -p "Please, Enter your Logname: " logname
echo "Full info: "

line=$(ls /home/$logname)
for i in $line
do
cp -r /home/$logname/$i /tmp
done

ls -l /tmp
echo "Get it!!"

ps
```

```
samaa@DESKTOP-HLF0E6L:~$ ./myinfo.sh
```

```
Please, Enter your Logname: samaa
```

```
Full info:
```

```
total 112
```

```
-rwxr-xr-x 1 samaa samaa 161 Feb 27 17:29 LAB1.sh
-rwxr-xr-x 1 samaa samaa 356 Feb 27 17:29 LAB11.sh
-rwxr-xr-x 1 samaa samaa 71 Feb 27 17:29 LAB2.sh
-rwxr-xr-x 1 samaa samaa 358 Feb 27 17:29 LAB3.sh
-rwxr-xr-x 1 samaa samaa 242 Feb 27 17:29 LAB4.sh
-rwxr-xr-x 1 samaa samaa 135 Feb 27 17:29 LAB5.sh
-rwxr-xr-x 1 samaa samaa 410 Feb 27 17:29 LAB6.sh
-rwxr-xr-x 1 samaa samaa 142 Feb 27 17:29 LAB7.sh
-rwxr-xr-x 1 samaa samaa 171 Feb 27 17:29 LAB8.sh
-rwxr-xr-x 1 samaa samaa 114 Feb 27 17:29 LAB9.sh
-rwxr-xr-x 1 samaa samaa 72 Feb 27 17:29 LAB_1.sh
drwxr-xr-x 2 samaa samaa 4096 Feb 27 17:25 Q3
-rwxr-xr-x 1 samaa samaa 50 Feb 27 17:29 Q3_1.txt
-rwxr-xr-x 1 samaa samaa 50 Feb 27 17:29 Q3_2.txt
drwxr-xr-x 2 samaa samaa 4096 Feb 27 17:25 Q4
-rwxr-xr-x 1 samaa samaa 67 Feb 27 17:29 ReadInput.sh
-rwxr-xr-x 1 samaa samaa 53 Feb 27 17:29 ReadInput.sh.save
-rwxr-xr-x 1 samaa samaa 151 Feb 27 17:29 arg.sh
-rwxr-xr-x 1 samaa samaa 93 Feb 27 17:29 mycd.sh
-rwxr-xr-x 1 samaa samaa 60 Feb 27 17:29 mycp.sh
-rwxr-xr-x 1 samaa samaa 192 Feb 27 17:29 myinfo.sh
-rwxr-xr-x 1 samaa samaa 311 Feb 27 17:29 myls.sh
-rwxr-xr-x 1 samaa samaa 550 Feb 27 17:29 mytest.sh
-rwxr-xr-x 1 samaa samaa 26 Feb 27 17:29 s1.sh
-rwxr-xr-x 1 samaa samaa 53 Feb 27 17:29 s2.sh
-rwxr-xr-x 1 samaa samaa 243 Feb 27 17:29 script.sh
-rwxr-xr-x 1 samaa samaa 185 Feb 27 17:29 script.sh.save
-rw-r--r-- 1 samaa samaa 0 Feb 27 17:29 test.txt
drwxr-xr-x 2 samaa samaa 4096 Feb 27 17:25 tmp
```

```
Get it!!
```

PID	TTY	TIME	CMD
13	pts/0	00:00:01	bash
77	pts/0	00:00:00	nano
95	pts/0	00:00:00	nano
246	pts/0	00:00:00	bash
253	pts/0	00:00:00	bash
259	pts/0	00:00:00	bash
265	pts/0	00:00:00	bash