```
jilani@ubuntu: //www.stors ./abc.sh foo bat hat
Hello
The program ./abc.sh is now running
The second parameter was bat
The first parameter was foo
The parameter lis was foo bat hat
The user's hme directory is /home/jilani
Please enter a new greeting
thanks
thanks
The script is now complete
jilani@ubuntu: //www.stors
```

```
jilani@ubuntu:~/Desktop$ echo $SHELL
/bin/bash
jilani@ubuntu:~/Desktop$
Linux Shells
```

```
jilani@ubuntu:~/Desktop$ ls | sort
abc.sh
Mitigation_Techniques.txt
New Folder
PUCON' 23 CTF's
PUCON' 24 CTF's
Time Table.pdf
jilani@ubuntu:~/Desktop$
```

```
jilani@ubuntu:-/Desktom$ cat task1.sh
#!/bin/bash
# use '#" to add comments in shell script
#Author: Numan
#shell scripting practice problem
#script follows here:
pwd
ls
jilani@ubuntu:=/Desktop$ ./task1.sh
/home/jilani/Desktop
abc.sh | Mitigation Techniques.txt 'New Folder' "PUCON' 23 CTF's" "PUCON' 24 CTF's" task1.sh 'Time Table.pdf'
jilani@ubuntu:-/Desktop$
```

```
jilani@ubuntu: /Ocakion$ cat task1.sh
#! /bin/bash
# The first example of a shell script
directory=`pwd'
echo Hello World!
echo The date today is `date`
echo The current directory is $directory
jilani@ubuntu: /Ocakion$ ./task1.sh
Hello World!
The date today is Thu Feb 22 09:52:05 AM PKT 2024
The current directory is /home/jilani/Desktop
jilani@ubuntu: -/Desktop$
```

```
jilani@ubuntu: /Desktor $ cat task1.sh
#!/bin/sh
echo "Who am I talking to?"
read user_name
echo "Hello $user_name"
jilani@ubuntu: /Desktor $ ./task1.sh
"Who am I talking to?"
jilani
"Hello jilani"
jilani@ubuntu: /Desktor $
```

```
jilani@ubuntu:-/Deski
                       $ cat task1.sh
#!/bin/bash
let a=5+4
echo $a # 9
let "a = 5 + 4"
echo $a #9
let a++
echo $a # 10
let "a = 4 * 5"
echo $a # 20
let "a = $1 + 30"
echo $a # 30 + first command line argument
jilani@ubuntu:-/Desktop$ ./task1.sh 15
9
9
10
20
45
jilani@ubuntu:-/Desktop$
```

```
jilani@ubuntu: // scat task1.sh
#!/bin/bash able
# Basic arithmatic using expr

expr 5 + 4
expr "5 + 4"

Mitigation
expr 5+4
expr 5 \* $1

expr 11 % 2
a=$( expr 10 - 3 )
echo $a # 7

jilani@ubuntu: -/Desktop$ ./task1.sh 12

9
5 + 4
5+4
60
1
7
abc.sh
jilani@ubuntu: -/Desktop$
```

```
jilani@ubuntu:~/Desktop$)cat task1.shwhatsapp.com
#!/bin/bash
# Basic arithmetic using double parentheses
a=$(( 45 ))
echo $a #9
a=$((3+5))
echo $a # 8
b=\$((a+3))
echo $b # 11
b=$(( $a + 4 ))
echo $b # 12
(( b++ ))
echo $b # 13
((b += 3))
echo $b # 16
a=\$((4*5))
echo $a # 20
jilani@ubuntu:~/Desktop$ ./task1.sh
45
8
11
12
13
16
20
jilani@ubuntu:~/Desktop$
```

```
jilani@ubuntu:-/Desktop$ cat task1.sh
#!/bin/bash
a=10
b=20
if (( $a == $b ))
then New Folder
echo "$a -eq $b : a is equal to b"
else
echo "$a -eq $b: a is not equal to b"
fi
if [ $a -ne $b ]
then
echo "$a -ne $b: a is not equal to b"
else
echo "$a -ne $b : a is equal to b"
fi
jilani@ubuntu:-/Desktop$ ./task1.sh
10 -eq 20: a is not equal to b
10 -ne 20: a is not equal to b
jilani@ubuntu:-/Desktop$
```

```
jilani@ubuntu:-/Desktop$ cat task1.sh
#!/bin/bash
if [ -w $file ]
then
        echo "File has write permission"
else
        echo "File does not have write permission"
fi
if [ -x $file ]
then
        echo "File has execute permission"
else
        echo "File does not have execute permission"
fi
jilani@ubuntu:-/Desktop$ ./task1.sh
File has write permission
File has execute permission
jilani@ubuntu:-/Desktop$
```