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**Sap-Id:** 2024  
**Subject:** Operating System  
**Lab#:** 08

## Exercise 1

```
#!/bin/sh
clear
date > lab8
echo -e "lab8 file contains:"
```

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS/string$ pico task1
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS/string$ chmod u+x task1
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS/string$ ./task1
```

```
-e lab8 file contains:
```

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS/string$
```

As this “e” is used for interpretation of escape characters. As no escape character is mentioned inside the double quotes so same output is displayed.

## Exercise 2

GNU nano 2.5.3	File: task2	Modified
<pre>#!/bin/sh x=5 y=0 echo "The value of X = " \$x y=\$(expr \$x + 5) echo "The value of Y = " \$y</pre>		

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ pico task2
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ chmod u+x task2
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ ./task2
The value of X = 5
The value of Y = 10
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$
```

Value of x is 5 and y is 10.

## Exercise 3

```
#!/bin/sh
read a
read b
echo "Sum of two integers is" $(expr $a + $b)
```

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ pico task3
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ chmod u+x task3
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ ./task3
10
20
Sum of two integers is 30
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$
```

## Exercise 4

```
#!/bin/sh
a=5
b=7
c=5.5
mul=$(expr $a \* $b)
echo "scale=4;$mul/$c" | bc
```

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ pico task4
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ chmod u+x task4
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ ./task4
6.3636
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$
```

## Exercise 5

```
#!/bin/sh
echo "Enter the directory name"
read dname
mkdir $dname
cd $dname
date>timestamp
```

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ pico task5
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ chmod u+x task5
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ ./task5
Enter the directory name
string
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ ls
date  datetime  lab556  string  taliha  task2  task3  task4  task5
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ cd string/
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS/string$ ls
timestamp
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS/string$ cat timestamp
16 19:32:04 PKT 2021
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS/string$
```