

NAME: Kaustubh Gajanan Indulkar  
TE-IT-A 25027

# ASSIGNMENT 1

## PART A

### # 1) Print

```
echo "Students"
```

### # 2) Remove spaces

```
echo -e "PES \bModern \bCollege \bOf \bEngineering"
```

### # 3) Remove word behind \c

```
echo -e "Operating \cSystem"
```

### # 4) Add new line

```
echo -e "Final \nSubmission"
```

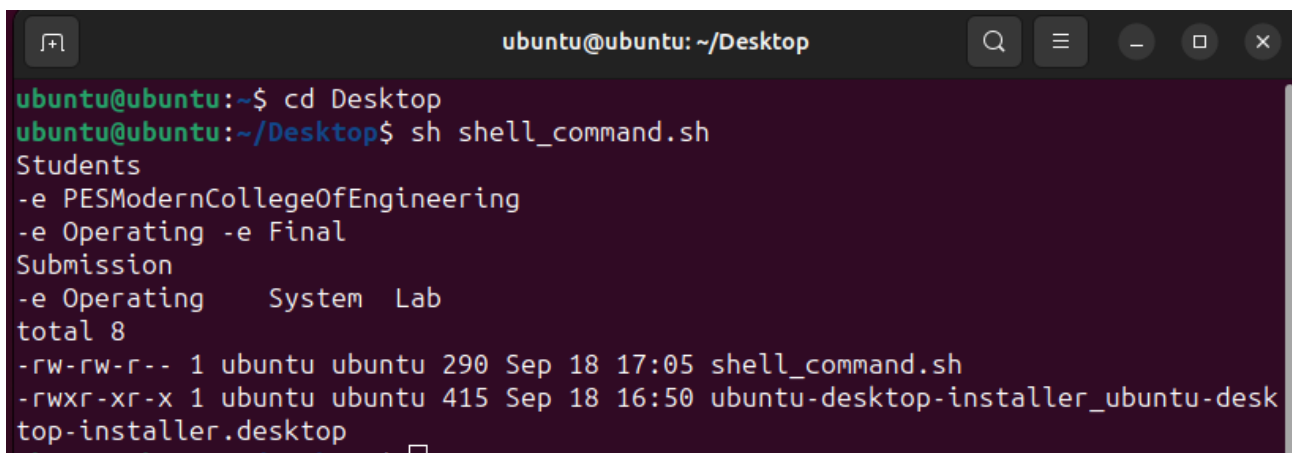
### # 5) Add tabs

```
echo -e "Operating \tSystem \tLab"
```

### ## ls

# 1) Long listing of files

```
ls -l
```



```
ubuntu@ubuntu: ~/Desktop
ubuntu@ubuntu:~$ cd Desktop
ubuntu@ubuntu:~/Desktop$ sh shell_command.sh
Students
-e PESModernCollegeOfEngineering
-e Operating -e Final
Submission
-e Operating      System  Lab
total 8
-rw-rw-r-- 1 ubuntu ubuntu 290 Sep 18 17:05 shell_command.sh
-rwxr-xr-x 1 ubuntu ubuntu 415 Sep 18 16:50 ubuntu-desktop-installer_ubuntu-desk
top-installer.desktop
```

### ##read

# 1) Read value to variable and print

```
read name
```

```
echo "Hello $name!"
```

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```
ubuntu@ubuntu:~/Desktop$ sh shell_command2.sh
Kaustubh
Hello Kaustubh!
```

### # 1) Create file

touch tempfile.txt

### ## cat

# 1) Copy the content of file source > destination

cat ./tempfile.txt > ../temp.txt

# 2) Show content of file

cat ../temp.txt

```
ubuntu@ubuntu:~/Desktop$ cat ../temp.txt
My Name is Kaustubh Indulkar!!
```

### ## test

# 1) Return 0 if name == Ash else return 1 (used to check the previous command is successfully executed or not)

read name

test \$name = Ash

echo \$?

```
ubuntu@ubuntu:~/Desktop$ sh shell_command2.sh
Ash
0
ubuntu@ubuntu:~/Desktop$ sh shell_command2.sh
Kaustubh
1
```

### ## Loops

#### # 1) For loop

for i in 1 2 3 4 5

do

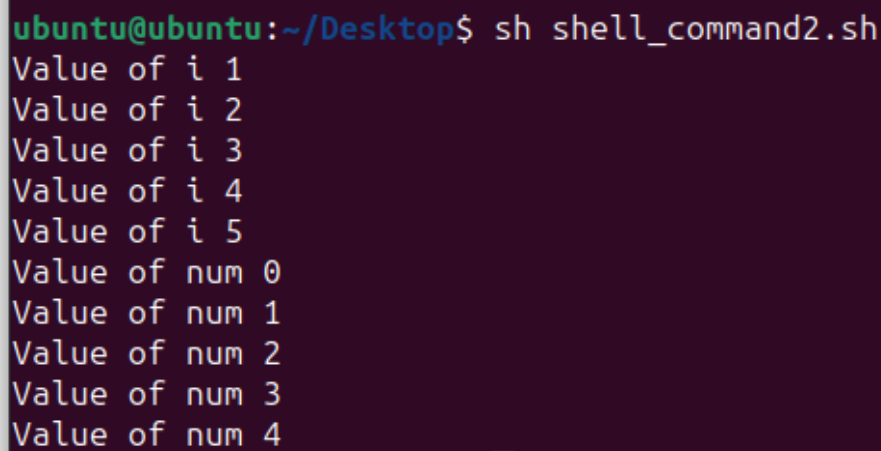
echo "Value of i \$i"

done

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## # 2) While loop

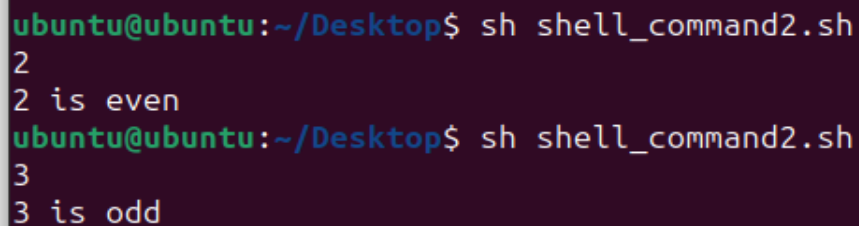
```
num=0
while [ "$num" -lt 5 ]
do
echo "Value of num $num"
num=`expr $num + 1`
done
```



A terminal window with a dark purple background. The prompt is 'ubuntu@ubuntu:~/Desktop\$'. The user enters 'sh shell\_command2.sh'. The script outputs the following lines: 'Value of i 1', 'Value of i 2', 'Value of i 3', 'Value of i 4', 'Value of i 5', 'Value of num 0', 'Value of num 1', 'Value of num 2', 'Value of num 3', and 'Value of num 4'.

## ##Conditionals

```
# 1) If else block
read num
if [ `expr $num % 2` -eq 0 ]
then
echo "$num is even"
else
echo "$num is odd"
fi
```



A terminal window with a dark purple background. The prompt is 'ubuntu@ubuntu:~/Desktop\$'. The user enters 'sh shell\_command2.sh'. The script prompts for input '2' and outputs '2 is even'. The user then enters '3' and the script outputs '3 is odd'.

## ## grep

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# 1) Return the line containing matching string (case insensitive)

grep -i 'Kaustubh Indulkar' ./tempfile.txt

# 2) Return the count/ occurrence of given string

grep -c '27' ./tempfile.txt

# 3) Return the lines contains given string also adds line number  
at beginning

grep -n '27' ./tempfile.txt

```
ubuntu@ubuntu:~/Desktop$ sh shell_command2.sh
My Name is Kaustubh Indulkar!!
1
shell_command2.sh: 9: at: not found
2:My Roll No is 27
```

## ## sed

# 1) Replace 27 with 26

echo "Before Replacing Number"

cat ./tempfile.txt

echo "\nAfter Replacing Number"

sed 's/27/26/' ./tempfile.txt

```
ubuntu@ubuntu:~/Desktop$ sh shell_command2.sh
Before Replacing Number
My Name is Kaustubh Indulkar!!
My Roll No is 27

After Replacing Number
My Name is Kaustubh Indulkar!!
My Roll No is 26
```