



*Fatima Jinnah Women University*

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# LAB 4

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**Section:** A

**Semester:** Third

**Course:** Operating System (LAB)

## TASK 01

Write shell script as follows:

```
cat > trmif
#
# Script to test rm command and exist status
#
if rm $1
then
echo "$1 file deleted"
fi
```

Press Ctrl + d to save

\$ chmod 755 trmif

```
raifa@ubuntu:~$ cat >foo
this file exist
raifa@ubuntu:~$ cat >trmif
if rm $1
then
echo "$1 file deleted"
fi
raifa@ubuntu:~$ chmod 755 trmif
```

Answer the following question in reference to above script:

1. foo file exists on your disk and you give command, \$ ./trmfi foo what will be output?

```
raifa@ubuntu:~$ ./trmif foo
foo file deleted
```

2. If bar file not present on your disk and you give command, \$ ./trmfi bar what will be output?

```
raifa@ubuntu:~$ ./trmif bar
rm: cannot remove 'bar': No such file or directory
```

3. And if you type \$ ./trmfi What will be output?

```
raifa@ubuntu:~$ ./trmif
rm: missing operand
Try 'rm --help' for more information.
```

## TASK 02

Write a shell script that computes the gross salary of an employee according to the following:

- 1) if basic salary is <1500 then HRA=10% of the basic salary.
- 2) if basic salary is >1500 then HRA=20% of the basic salary.

```
raifa@ubuntu:~$ vi gsalary.sh
raifa@ubuntu:~$ cat gsalary.sh
echo "Enter the basic salary:"
read bs
if [ $bs -lt 1500 ]
then
gs=$((bs+(bs/100)*10))
echo "gross salary: $gs"
fi
if [ $bs -gt 1500 ]
then
gs=$((bs+(bs/100)*20))
echo "gross salary: $gs"
fi
raifa@ubuntu:~$ chmod 777 gsalary.sh
raifa@ubuntu:~$ ./gsalary.sh
Enter the basic salary:
25000
gross salary: 30000
```

## TASK 03

Write a shell script to ADD two numbers taken from argument?

Note: show error if no argument or more than 2 arguments are passed

\$ ./ADD 5 6

Output : Sum of 5 and 6 = 5+6 = 11

```
raifa@ubuntu:~$ vi ADD
raifa@ubuntu:~$ chmod 755 ADD
raifa@ubuntu:~$ cat ADD
Addition of 2 numbers
sum=$((($1+$2))
echo "sum of 2 numbers : ($1+$2) = $sum"
raifa@ubuntu:~$ ./ADD
./ADD: line 1: Addition: command not found
./ADD: line 2: +: syntax error: operand expected (error token is "+")
sum of 2 numbers : (+) =
raifa@ubuntu:~$ ./ADD 6 2
./ADD: line 1: Addition: command not found
sum of 2 numbers : (6+2) = 8
raifa@ubuntu:~$ ./ADD 4 2 8
./ADD: line 1: Addition: command not found
sum of 2 numbers : (4+2) = 6
```