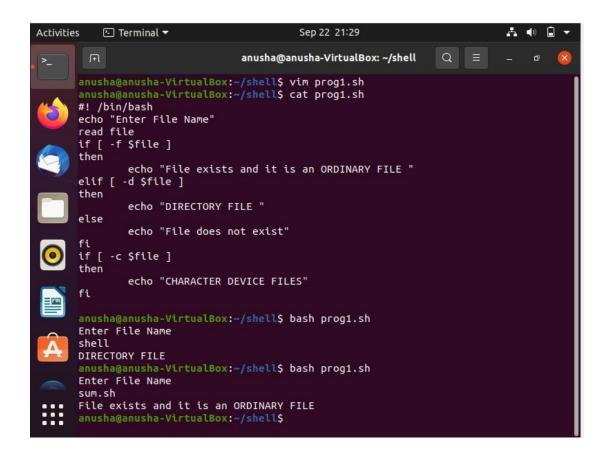
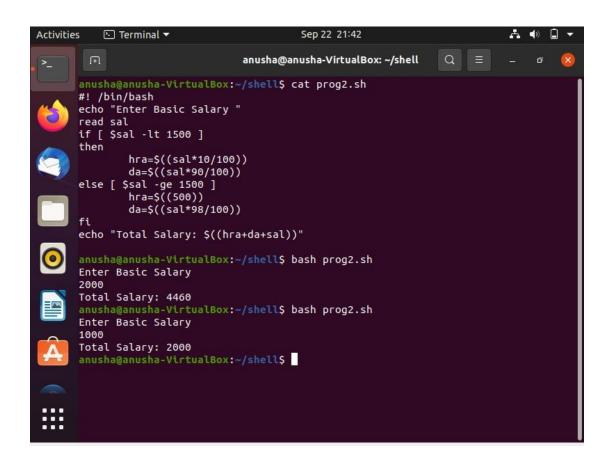
EXERCISE 5

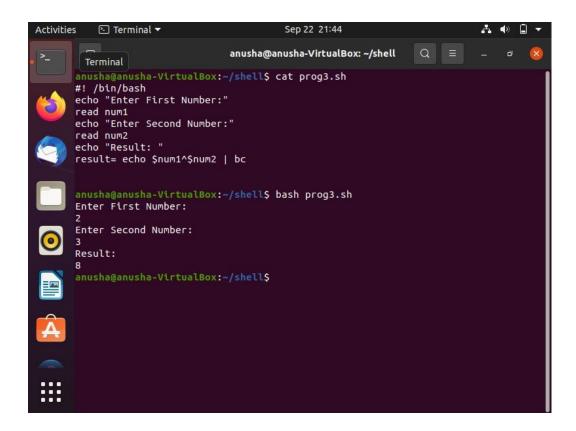
1) Write a shell script that takes a command line argument and reports on whether it is directory, a file, or something else.



- 2) Write a shell script that computes the gross salary of a employee according to the following rules :
- i) if basic salary is < 1500 then HRA =10% of the basic and DA =90% of the basic.
- ii) If basic salary is >=1500 then HRA =Rs500 and DA=98% of the basic.



3) Write a shell script that accepts two integers as its arguments and computes the value of first number raised to the power of the second number.



4.Write a shell script which receives two file names as arguments. It should check whether the two file contents are same or not. If they are same then second file should be deleted.

```
anusha@anusha-VirtualBox:~/shell$ cat prog4.sh
#! /bin/bash
echo "Enter first file name: "
read f1
echo "Enter Second File name: "
read f2
if cmp $f1 $f2
then
        rm -i "$f2"
else
        echo "Files are not same"
anusha@anusha-VirtualBox:~/shell$ bash prog4.sh
Enter first file name:
1.sh
Enter Second File name:
2.sh
rm: remove regular file '2.sh'? y
anusha@anusha-VirtualBox:~/shell$ bash prog4.sh
Enter first file name:
sum.sh
Enter Second File name:
1.sh
sum.sh 1.sh differ: byte 1, line 1
Files are not same
anusha@anusha-VirtualBox:~/shell$
```

5) Write a shell script for Calculator

```
anusha@anusha-VirtualBox:~/shell$ vim prog5.sh
anusha@anusha-VirtualBox:~/shell$ cat prog5.sh
echo "Enter two numbers:"
read a
read b
echo "1.Addition"
echo "2.Subtraction"
echo "3.Multiplication"
echo "4.Division"
echo "Enter choice:"
read choice
case $choice in
        1)let sum=$a+$b
         echo "Result: $sum";;
        2)let sub=$a-$b
        echo "Result: $sub";;
        3)let mul=$a*$b
        echo "Result: $mul";;
        4)let div=$a/$b;
        echo "Result: $div";;
        *)echo "Invalid";;
esac
```

```
anusha@anusha-VirtualBox:~/shell$ bash prog5.sh
Enter two numbers:
2
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter choice:
Result: 5
anusha@anusha-VirtualBox:~/shell$ bash prog5.sh
Enter two numbers:
2
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter choice:
Result: 2
```

```
anusha@anusha-VirtualBox:~/shell$ bash prog5.sh
Enter two numbers:
4
3
1.Addition
2. Subtraction
3.Multiplication
4.Division
Enter choice:
3
Result: 12
anusha@anusha-VirtualBox:~/shell$ bash prog5.sh
Enter two numbers:
4
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter choice:
Result: 2
anusha@anusha-VirtualBox:~/shell$
```