```
alen@alen:~$ cat > pgm1.sh
#! /bin/bash
echo "enter file"
read str
if test -f $str
then echo "fie exists"
elif test -d $str
then echo "directory file"
else
echo "not exists"
if test -c $str
then echo "character device files"
alen@alen:~$ bash pgm1.sh
enter file
Documents
directory file
alen@alen:~$ bash pgm1.sh
enter file
myfile
fie exists
alen@alen:~$ cat > pgm1.sh
#! /bin/bash
echo "enter file"
read str
if test -f $str
then echo "fie exists"
elif test -d $str
then echo "directory file"
else
echo "not exists"
if test -c $str
then echo "character device files"
alen@alen:~$ bash pgm1.sh
enter file
^C
alen@alen:~$ Is
      Documents latest.zip myfile Pictures Templates wordpress
Desktop Downloads Music
                              pgm1.sh Public Videos
alen@alen:~$ bash pgm1.sh
enter file
Documents
directory file
alen@alen:~$ bash pgm1.sh
enter file
myfile
```

## fie exists

```
2.
alen@alen:~$ cat > pgm2.sh
#! /bin/bash
echo -n "Enter the basic salary:"
read sal
if [$sal -lt 1500]
then
echo "HRA :" $((sal*10/100))
echo "DA :" $((sal*90/100))
else [$sal -ge 1500]
           echo "HRA : RS.500"
echo "DA :" $((sal*98/100))
alen@alen:~$ bash pgm2.sh
Enter the basic salary:3000
HRA : RS.500
DA : 2940
alen@alen:~$ bash pgm2.sh
Enter the basic salary:1000
HRA : 100
DA: 900
alen@alen:~$ cat > pgm2.sh
#! /bin/bash
```

echo -n "Enter the basic salary:" read sal

if [\$sal -lt 1500]

then echo "HRA:" \$((sal\*10/100)) echo "DA:" \$((sal\*90/100)) else [\$sal -ge 1500] echo "HRA: RS.500" echo "DA:" \$((sal\*98/100)) Fi

alen@alen:~\$ bash pgm2.sh Enter the basic salary:3000 HRA: RS.500

DA: 2940 alen@alen:~\$ bash pgm2.sh Enter the basic salary:1000

HRA: 100 DA: 900

```
3.
alen@alen:~$ cat > pgm3.sh
#! /bin/bash
echo -n "Enter the base :"
read N
echo -n "Enter the power :"
read S
sq= echo $N^$S | bc
alen@alen:~$ bash pgm3.sh
Enter the base :4
Enter the power :3
64
alen@alen:~$ cat > pgm3.sh
#! /bin/bash
echo -n "Enter the base :"
read N
echo -n "Enter the power :"
read S
sq= echo $N^$S | bc
alen@alen:~$ bash pgm3.sh
Enter the base :4
Enter the power:3
64
```

4.

```
alen@alen:~$ cat > pgm4.sh
#! /bin/bash
echo -n "Enter the first file :"
read file1
echo -n "Enter the second file :"
read file2
if cmp $file1 $file2
then
       rm -i "$file2"
else
       echo "Contents of the files are not same!!!"
fi
alen@alen:~$ cat > ab.txt
ok bye
alen@alen:~$ cat > cd.txt
ok gudngt
alen@alen:~$ bash pgm4.sh
Enter the first file :ab.txt
Enter the second file :cd.txt
ab.txt cd.txt differ: byte 4, line 1
Contents of the files are not same!!!
alen@alen:~$ cat > pgm4.sh
#! /bin/bash
echo -n "Enter the first file:"
read file1
echo -n "Enter the second file:"
read file2
if cmp $file1 $file2
then
    rm -i "$file2"
else
    echo "Contents of the files are not same!!!"
alen@alen:~$ cat > ab.txt
ok bye
alen@alen:~$ cat > cd.txt
ok gudngt
alen@alen:~$ bash pgm4.sh
Enter the first file :ab.txt
Enter the second file :cd.txt
ab.txt cd.txt differ: byte 4, line 1
```

Contents of the files are not same!!!

```
alen@alen:-$ cat > pgm5.sh
#! /bin/bash
echo "Enter 2 nos :"
read a
read b

echo "Enter the choice :"
echo "1.addition"
echo "2.substraction"
echo "3.mulitiplication"
echo "4.division"
read ch

case $ch in
1)res=`echo $a + $b | bc`
;;
2)res=`echo $a - $b | bc`
;;
3)res=`echo "scale=2; $a / $b" | bc`
;;
esac
echo "Result : $res"
```

```
alen@alen:~$ bash pgm5.sh
Enter 2 nos :
5
3
Enter the choice :
1.addition
2.substraction
3.mulitiplication
4.division
1
Result : 8
```

```
alen@alen:~$ bash pgm5.sh
Enter 2 nos :
10
20
Enter the choice :
1.addition
2.substraction
3.mulitiplication
4.division
Result : -10
alen@alen:~$ bash pgm5.sh
Enter 2 nos :
Enter the choice :
1.addition
2.substraction
3.mulitiplication
4.division
Result: 8
alen@alen:~$ bash pgm5.sh
Enter 2 nos :
20
Enter the choice :
1.addition
2.substraction
3.mulitiplication
4.division
Result : 4.00
alen@alen:~$ cat > pgm5.sh
#! /bin/bash
echo "Enter 2 nos:"
read a
read b
echo "Enter the choice:"
echo "1.addition"
echo "2.substraction"
echo "3, mulitiplication"
echo "4.division"
read ch
case $ch in
1)res='echo $a + $b | bc'
2)res='echo $a - $b | bc'
3)res='echo $a \* $b | bc'
;;
```

```
4)res=`echo "scale=2; $a / $b" |bc`
;;
esac
echo "Result: $res"
alen@alen:~$ vim pgm5.sh
alen@alen:~$ bash pgm5.sh
Enter 2 nos:
3
Enter the choice:
1.addition
2.substraction
3.mulitiplication
4.division
Result: 8
alen@alen:~$ bash pgm5.sh
Enter 2 nos:
10
20
Enter the choice:
1.addition
2.substraction
3.mulitiplication
4.division
Result: -10
alen@alen:~$ bash pgm5.sh
Enter 2 nos:
Enter the choice:
1.addition
2.substraction
3.mulitiplication
4.division
Result: 8
alen@alen:~$ bash pgm5.sh
Enter 2 nos:
20
Enter the choice:
1.addition
2.substraction
3.mulitiplication
4.division
4
```

Result: 4.00