

1.

```
#!/bin/bash
read -p "Enter the name : " name
if [ -f $name ]
then
    echo "This is a file "
elif [ -d $name ]
then
    echo "This is a directory "
else
    echo " This is not a file or a directory "
fi
```

2.

```
#!/bin/bash
read -p "Enter a:: " basic
if [ $basic -lt 1500 ]
then
    let hra=($basic*10)/100
    let da=($basic*90)/100
else
    hra=500
    let da=($basic*98)/100
fi
```

```
let gross=$basic+$da+$hra
echo $gross
```

3.

```
#!/bin/bash
read -p "Enter first number :" a
read -p "Enter the power : " b
let pow=$a**$b
echo "The square is : $pow"
```

4.

```
#!/bin/bash
read -p "Enter the name of the first file : " a
read -p "Enter the name of the second file : " b
c=$(cat $a)
d=$(cat $b)
if [ "$c" == "$d" ]
then
    rm -f $b
    echo "The second file is deleted "
else
    echo "The two files are different"
fi
```

5.

```
#!/bin/bash
ch=0
until [ $ch -eq 6 ]
do
    echo -e "1. Addition \n2. Subtraction \n3. Multiplication \n4. Division \n5. Modulus \n6.
Exit"
```

```
    read -p "Enter choice:: " ch
    case $ch in
        1) read -p "Enter first number:: " n1
            read -p "Enter second number:: " n2
                let result=$n1+$n2
                echo "$n1 + $n2 = $result";;

        2) read -p "Enter first number:: " n1
            read -p "Enter second number:: " n2
                let result=$n1-$n2
                echo "$n1 - $n2 = $result";;

        3) read -p "Enter first number:: " n1
            read -p "Enter second number:: " n2
                let result=$n1*$n2
                echo "$n1 * $n2 = $result";;

        4) read -p "Enter first number:: " n1
            read -p "Enter second number:: " n2
                let result=$n1/$n2
                echo "$n1 / $n2 = $result";;

        5) read -p "Enter first number:: " n1
            read -p "Enter second number:: " n2
                let result=$n1%n2
                echo "$n1 % $n2 = $result";;

        6) ;;

        *) echo "Invalid input"
```

```
    esac
```

```
done
```