

1.

SCRIPT:

```
echo "Enter Choice :"  
echo "1. Addition"  
echo "2. Subtraction"  
echo "3. Multiplication"  
echo "4. Division"  
read ch  
  
# Switch Case to perform  
# calculator operations  
case $ch in  
    1) res=`echo $1 + $2 |bc`  
    ;;  
    2) res=`echo $1 - $2 |bc`  
    ;;  
    3) res=`echo $1 \* $2 |bc`  
    ;;  
    4) res=`echo $1 / $2 | bc`  
    ;;  
esac  
echo "Result : $res"
```

OUTPUT:

```
root@WPL-31:~/Desktop# ./calca.sh 10 5
```

```
Enter Choice :
```

```
1. Addition  
2. Subtraction  
3. Multiplication  
4. Division
```

```
4
```

```
Result : 2
```

```
root@WPL-31:~/Desktop# ./calca.sh 10 5
```

```
Enter Choice :
```

```
1. Addition  
2. Subtraction  
3. Multiplication  
4. Division
```

```
1
```

```
Result : 15
```

```
root@WPL-31:~/Desktop# ./calca.sh 10 5
```

```
Enter Choice :
```

```
1. Addition  
2. Subtraction  
3. Multiplication  
4. Division
```

```
2
```

```
Result : 5
```

```
root@WPL-31:~/Desktop# ./calca.sh 10 5
```

```
Enter Choice :
```

```
1. Addition  
2. Subtraction  
3. Multiplication
```

```
4. Division
3
Result : 50
```

```
5.
SCRIPT:
#!/bin/sh
```

```
echo "The name of the script file is $0"
```

```
echo "Total number of arguments passed to the script = $#"
```

```
if [ $# -gt 0 ]
then
```

```
    echo "List of arguments:"
    for arg in $@
    do
        echo "$arg"
    done
```

```
else
```

```
    echo "No argument provided to the script."
```

```
fi
```

```
OUTPUT:
```

```
root@WPL-31:~/Desktop# chmod +x print.sh
root@WPL-31:~/Desktop# ./print.sh ssn 1 college engineering 2 cse
department
The name of the script file is ./print.sh
Total number of arguments passed to the script = 7
List of arguments:
ssn
1
college
engineering
2
cse
department
```

```
6.
SCRIPT:
#!/bin/bash
linecount()
{
    num_of_lines=$(wc -l "$0")
}
linecount $0
echo $num_of_lines
```

OUTPUT:

```
root@WPL-31:~/Desktop# ./count1.sh
7 ./count1.sh
```

7.

SCRIPT:

```
#!/bin/bash
compare()
{
if [$1<$2];then
    x=2;
elif [$1>$2];then
    x=1;
else
    x=0;
fi
}
```

```
compare $1 $2
echo $x
```

OUTPUT:

```
root@WPL-31:~/Desktop# ./cmp.sh hello world
1
```

8.

SCRIPT:

```
#!/bin/bash
```

```
i="y"
```

```
echo "Enter name of database "
```

```
read db
```

```
while [ $i = "y" ]
```

```
do
```

```
clear
```

```
echo "1.View the Data Base "
```

```
echo "2.View Specific Record "
```

```
echo "3.Add Records "
```

```
echo "4.Delete Records "
```

```
echo "5.Exit "
```

```
echo "Enter your choice "
```

```
read ch
```

```
case $ch in
```

```
1) cat $db;;
```

```
2) echo "Enter name"
```

```
read name
```

```
grep -i "$name" $db;;
```

```
3) echo "Enter new rate of work"
```

```
iread rate_of_work
```

```
echo "Enter new name:"
```

```
read tnm
```

```
echo "Enter hours fo work"
```

```
read h_work
```

```
echo "$nm $rate_of_work $h_work ">>$db;;
```

```
4) echo "Enter name"
```

```
read name
```

```
# set -a
# sed '/$name/d' $db>dbs1
grep -v "$name" $db >dbs1
echo "Record is deleted"
cat dbs1;;
5) exit;;
*)echo "Invalid choice ";;
esac
echo "Do u want to continue ?"
read i
if [ $i != "y" ]
then
    exit
fi
done
```