Case statement

1) Write a menu driven program for mathematical calculation
   a. It should take user inputs a and b
   b. It should ask for mathematical operator (+, -, / and *).
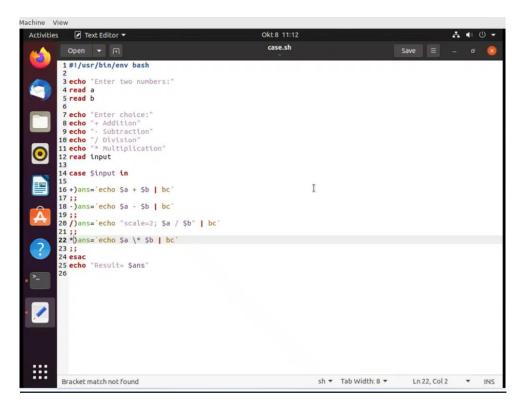   c. Do the calculation
   d. Print the output

#commands in bash script

```
#!/usr/bin/env bash

echo "Enter two numbers : "
read a
read b

# Input type of operation
echo "Enter Choice :"
echo "+ Addition"
echo "- Subtraction"
echo "/ Division"
echo "* Multiplication"
read input
case $input in
  +)ans=`echo $a + $b | bc`
  ;;
  -)ans=`echo $a - $b | bc`
  ;;
  /)ans=`echo "scale=2; $a / $b" | bc`
  ;;
  *)ans=`echo $a\* $b" | bc`
  ;;
esac
echo "Result : $ans"
```

#commands in terminal

```
gedit case.sh
chmod +x case.sh
./case.sh
```

OUTPUT:

Activities   Text Editor ▾   Okt 8 11:12

case.sh

Open ▾   Save
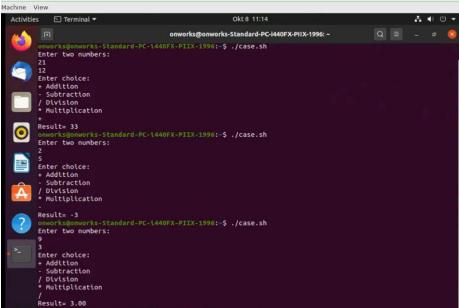
```
 1 #!/usr/bin/env bash
 2
 3 echo "Enter two numbers:"
 4 read a
 5 read b
 6
 7 echo "Enter choice:"
 8 echo "+ Addition"
 9 echo "- Subtraction"
10 echo "/ Division"
11 echo "* Multiplication"
12 read input
13
14 case $input in
15
16 +)ans=`echo $a + $b | bc`
17 ;;
18 -)ans=`echo $a - $b | bc`
19 ;;
20 /)ans=`echo "scale=2; $a / $b" | bc`
21 ;;
22 *)ans=`echo $a \* $b | bc`
23 ;;
24 esac
25 echo "Result= $ans"
26
```

Bracket match not found   sh ▾   Tab Width: 8 ▾   Ln 22, Col 2   ▾   INS

Activities   Terminal ▾   Okt 8 11:14

onworks@onworks-Standard-PC-I440FX-PIIX-1996: ~

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ./case.sh
Enter two numbers:
21
12
Enter choice:
+ Addition
- Subtraction
/ Division
* Multiplication
+
Result= 33
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ./case.sh
Enter two numbers:
2
5
Enter choice:
+ Addition
- Subtraction
/ Division
* Multiplication
-
Result= -3
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ./case.sh
Enter two numbers:
9
3
Enter choice:
+ Addition
- Subtraction
/ Division
* Multiplication
/
Result= 3.00
```

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ./case.sh
Enter two numbers:
3
8
Enter choice:
+ Addition
- Subtraction
/ Division
* Multiplication
*
Result= 24
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```