

Ex. no: 2a)

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Shell Script

Aim:

To write a Shellscrip to to display basic calculator.

Program:

```
while [ 1 ]
do
echo " Enter the operator(+,-,/,*,%,(for end the iteration)): "
read op
if [ "$op" == "0" ]; then
break
else
echo " Enter value 1: "
read x
echo " Enter value 2: "
read y
if [ "$op" == "+" ]; then
# result=$(( x + y ))
echo $(( x + y ))
elif [ "$op" == "-" ]; then
echo "sub: $(( x - y ))"
elif [ "$op" == "/" ]; then
echo "div: $(( x / y ))"
elif [ "$op" == "*" ]; then
echo "mul: $(( x * y ))"
elif [ "$op" == "%" ]; then
echo "modulo: $(( x % y ))"
else
echo enter valid operator
fi
fi
#((i--))
#i=$(( i - 1 ))
done
```

Input | Output :

```

Enter the operator(+,-,/,*,%,0(for end the iteration)):
+
Enter value 1:
6
Enter value 2:
4
10
Enter the operator(+,-,/,*,%,0(for end the iteration)):
-
Enter value 1:
6
Enter value 2:
5
sub: 1
Enter the operator(+,-,/,*,%,0(for end the iteration)):
*
Enter value 1:
2
Enter value 2:
4
mul: 8
Enter the operator(+,-,/,*,%,0(for end the iteration)):
0

```

Ex. no: 2a)

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Shell Script

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Aim:

To write a Shellscrip to test given year is leap or not using conditional statement

Program:

```

echo Enter year:
read year
if [ $(( year % 400 )) -eq 0 ] || [ $(( year % 4 )) -eq 0 ] && [ $(( year % 100 ))
-ne 0 ]; then
    echo leap year
else
    echo not a leap year
fi

```

```
enter year:  
2000  
2000 is a leap year.
```