Ex. no: 2a)

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<div align="center">Shell Script</div>

Aim:

To write a Shellscript to to display basic calculator.

Program:

```
while [ 1 ]
do
echo " Enter the operator(+,-,/,*,%,0(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: 2b)

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Shell Script

Aim:

To write a Shellscript 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
~
~
```

Input | Output :

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