

Ex. No. 2 (a)	SHELL SCRIPT – ARITHMETIC OPERATIONS USING EXPR COMMAND
Date: 30.01.2025	

Aim: To write a Shell script to display basic calculator.

Program:

```

echo "Enter two nos:"
read num1 read
num2

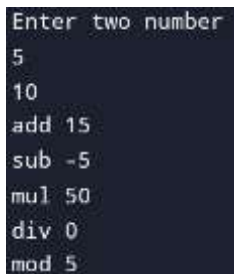
addi=`expr $num1 + $num2` sub=`expr
$num1 - $num2`
mul=`expr $num1 \* $num2`

if [ $num2 -ne 0 ]; then
div=`expr $num1 / $num2`
  mod=`expr $num1 % $num2` else
div="undefined (division by zero)"
mod="undefined (division by zero)"
fi

echo "Add: $addi"
echo "Sub: $sub"
echo "Mul: $mul"
echo "Div: $div" echo
"Mod: $mod"

```

Output:



```

Enter two number
5
10
add 15
sub -5
mul 50
div 0
mod 5

```

Result:

Hence, the basic calculator program was executed successfully.

Ex. No. 2 (b)	SHELL SCRIPT – LEAP YEAR USING IF-ELSE
Date: 30.01.2025	

Aim:

To write a Shell script to test given year is leap or not using conditional statement.

Program:

```
echo "Enter a year:" read
year

if [ $((year % 400)) -eq 0 ] ||
{
    [ $((year % 4)) -eq 0 ] &&
    [ $((year % 100)) -ne 0 ]
}; then
    echo "$year is a Leap Year"
else echo "$year is not a Leap
Year" fi
```

Output:

```
[cse195@fedora ~]$ sh ex_3.1.sh
Ex.2.2 LEAP YEAR
Enter a year:
2020
2020 is a Leap Year
```

Result:

Hence, the Shell Script to check leap year was executed successfully.

