

**Ex. no: 2a)****Shell Script****Date:25.01.25****Aim:**

To write a Shellscrip to to display basic calculator.

**Program:**

```
echo "Enter a two no"
```

```
read a
```

```
read b
```

```
c=`expr $a + $b`
```

```
d=`expr $a - $b`
```

```
e=`expr $a \* $b`
```

```
f=`expr $a / $b`
```

```
g=`expr $a % $b`
```

```
echo "add $c"
```

```
echo "sub $d"
```

```
echo "mul $e"
```

```
echo "div $f"
```

```
echo "mod $g"
```

**Sample Input and Output**

Run the program using the below command

```
[REC@local host~]$ sh arith.sh
```

Enter two no

5

10

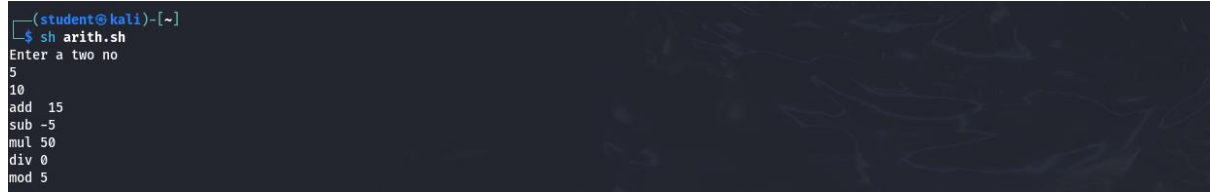
add 15

sub -5

mul 50

div 0

mod 5



```
(student@kali)~  
$ sh arith.sh  
Enter a two no  
5  
10  
add 15  
sub -5  
mul 50  
div 0  
mod 5
```

**Result:**

Thus, the shell script has been successfully executed.

**Ex. no: 2b)****Shell Script****Date:25.01.25****Aim:**

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

**Program:**

```
echo "Enter year:"
```

```
read year
```

```
if [ $((year % 4)) -ne 0 ]
```

```
then
```

```
    echo "$year is not a leap year"
```

```
elif [ $((year % 100)) -ne 0 ]
```

```
then
```

```
    echo "$year is a leap year"
```

```
elif [ $((year % 400)) -ne 0 ]
```

```
then
```

```
    echo "$year is not a leap year"
```

```
else
```

```
echo "$year is a leap year"  
fi
```

### Sample Input and Output

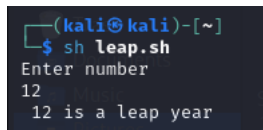
Run the program using the below command

```
[REC @ local host~]$ sh leap.sh
```

enter number

12

leap year

A terminal window screenshot with a dark background. The prompt is (kali@kali)-[~]. The user enters sh leap.sh. The script prompts 'Enter number' and the user enters '12'. The script then outputs '12 is a leap year'.

### Result:

Thus,the shell script has been successfully executed.