

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 Shellscript 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

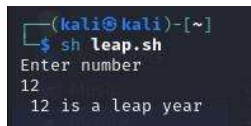
Run the program using the below command

```
[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', the user enters '12', and the script outputs '12 is a leap year'.

```
(kali@kali)-[~]  
$ sh leap.sh  
Enter number  
12  
12 is a leap year
```

Result:

Thus, the shell script has been successfully executed.