

OS LAB MANUAL (CS23431)

Roll No:230701234

EX.NO:2

2A)

Program:

Input:

```
pranav@Pranav:~$ vi two.c
pranav@Pranav:~$ vi two.sh
pranav@Pranav:~$ sh two.sh
Welcome to the Basic Calculator
-----
Enter first number:
5
Enter second number:
10
Choose operation:
1. Addition (+)
2. Subtraction (-)
3. Multiplication (*)
4. Division (/)
3
```

Output:

```
pranav@Pranav:~$ sh two.sh
Welcome to the Basic Calculator
-----
Enter first number:
5
Enter second number:
10
Choose operation:
1. Addition (+)
2. Subtraction (-)
3. Multiplication (*)
4. Division (/)
3
Result: 5 * 10 = 50
pranav@Pranav:~$ |
```

2B)

Program:

```
echo -n "Enter a year: "
```

```
read year
```

```
if [ $((year % 4)) -eq 0 ] && [ $((year % 100)) -ne 0 ] || [ $((year % 400)) -eq 0 ]; then
```

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

```
else
```

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

```
fi
```

Input:

```
pranav@Pranav:~$ vi twotwo.sh
pranav@Pranav:~$ sh twotwo.sh
Enter a year: 2020
```

OUTPUT:

```
pranav@Pranav:~$ vi twotwo.sh
pranav@Pranav:~$ sh twotwo.sh
Enter a year: 2020
2020 is a leap year.
```