

```
read -p "Enter two numbers : " a b
echo "$a + $b = "`expr $a + $b`
echo "$a - $b = "`expr $a - $b`
echo "$a * $b = "`expr $a \* $b`
echo "$a / $b = "`expr $a / $b`
echo "$a % $b = "`expr $a % $b`
```

```
[mca@localhost ~]$ chmod +x p7.sh
```

```
[mca@localhost ~]$ ./p7.sh
```

```
Enter two numbers :9 2
```

```
9 + 2 = 11
```

```
9 - 2 = 7
```

```
9 * 2 = 18
```

```
9 / 2 = 4
```

```
9 % 2 = 1
```

```
[mca@localhost ~]$ ./p7.sh
```

```
Enter two numbers :15 3
```

```
15 + 3 = 18
```

```
15 - 3 = 12
```

```
15 * 3 = 45
```

```
15 / 3 = 5
```

```
15 % 3 = 0
```

```
[mca@localhost ~]$ █
```

```
#!/bin/bash
n=10
while [ $n -le 100 ]
do
    echo $n
    n=`expr $n + 10`
done
~
```

```
[mca@localhost ~]$ chmod +x p8.sh
```

```
[mca@localhost ~]$ ./p8.sh
```

```
10
```

```
20
```

```
30
```

```
40
```

```
50
```

```
60
```

```
70
```

```
80
```

```
90
```

```
100
```

```
[mca@localhost ~]$ █
```

```
#!/bin/bash
i=1
read -p "Enter the number : " n
while [ $i -le $n ]
do
    echo "Value of $i = $i"
    i=`expr $i + 1`
done
```

```
[mca@localhost ~]$ ./p9.sh
Enter the number : 8
Value of 1 = 1
Value of 2 = 2
Value of 3 = 3
Value of 4 = 4
Value of 5 = 5
Value of 6 = 6
Value of 7 = 7
Value of 8 = 8
[mca@localhost ~]$
```

```
#!/bin/bash
read -p "Enter the number : " n
i=1
fact=1
while [ $i -le $n ]
do
fact=`expr $fact '*' $i`
i=`expr $i + 1`
done
echo "Factorial of $n = $fact"
```

```
[mca@localhost ~]$ ./p10.sh
```

```
Enter the number : 6
```

```
Factorial of 6 = 720
```

```
[mca@localhost ~]$ █
```



```
#!/bin/bash
read -p "Enter the number : " n
i=1
sum=0
while [ $i -le $n ]
do
    sum=`expr $sum + $i `
    i=`expr $i + 1`
done
echo "Sum of first $n numbers = $sum "
```

~

~

```
[mca@localhost ~]$ chmod +x p11.sh
```

```
[mca@localhost ~]$ ./p11.sh
```

```
Enter the number : 10
```

```
Sum of first 10 numbers = 55
```

```
[mca@localhost ~]$ █
```