

### **Write a program to print tables of a given number**

#### **Program:**

```
num=int(input("enter the number:"))  
for i in range(1,11,1):  
    print(f"{num} x {i} = {num * i}")
```

#### **Output:**

enter the number: 2

2 x 1 = 2  
2 x 2 = 4  
2 x 3 = 6  
2 x 4 = 8  
2 x 5 = 10  
2 x 6 = 12  
2 x 7 = 14  
2 x 8 = 16  
2 x 9 = 18  
2 x 10 = 20

### **Write a program to calculate sum of 1 to 10 numbers**

#### **Program:**

```
num=0  
for i in range(1,11,1):  
    num += i  
    print(num)
```

#### **Output:**

1  
3  
6  
10  
15

21

28

36

45

55

### **Explanation of how the code works:**

```
num=0
```

```
i=1
```

```
num+=i
```

```
num+=1
```

```
num=1
```

```
i=2
```

```
num+=i
```

```
num+=2
```

```
1+2
```

```
num=3
```

```
i=3
```

```
num=3+3
```

```
num=6
```

### **Write a program to count how many even numbers are there from 1 to 15**

#### **Program:**

```
count=0
```

```
for i in range(1,16,1):
```

```
    if(i%2==0):
```

```
        print("i=",i)
```

```
        count=count+1
```

```
    print("count=",count)
```

#### **Output:**

```
i= 2
```

```
count= 1
```

i= 4

count= 2

i= 6

count= 3

i= 8

count= 4

i= 10

count= 5

i= 12

count= 6

i= 14

count= 7

**Write program for how many numbers,how many even numbers, how many odd numbers are there in given range**

```
s=int(input())
```

```
e=int(input())
```

```
tc=0
```

```
ec=0
```

```
oc=0
```

```
for i in range(s,e+1,1):
```

```
    print("when i =",i)
```

```
    tc+= 1
```

```
    if (i % 2 == 0):
```

```
        ec+=1
```

```
    else:
```

```
        oc+=1
```

```
print("Total numbers=",tc)
```

```
print("Even numbers=",ec)
```

```
print("Odd numbers=",oc)
```

**Output:**

1

10

when i = 1

Total numbers= 1

Even numbers= 0

Odd numbers= 1

when i = 2

Total numbers= 2

Even numbers= 1

Odd numbers= 1

when i = 3

Total numbers= 3

Even numbers= 1

Odd numbers= 2

when i = 4

Total numbers= 4

Even numbers= 2

Odd numbers= 2

when i = 5

Total numbers= 5

Even numbers= 2

Odd numbers= 3

when i = 6

Total numbers= 6

Even numbers= 3

Odd numbers= 3

when i = 7

Total numbers= 7

Even numbers= 3

Odd numbers= 4

when i = 8

Total numbers= 8

Even numbers= 4

Odd numbers= 4

when i = 9

Total numbers= 9

Even numbers= 4

Odd numbers= 5

when i = 10

Total numbers= 10

Even numbers= 5

Odd numbers= 5

**Write a program to calculate factorial of given number**

```
n=int(input())
```

```
fact=1
```

```
for i in range(n,0,-1):
```

```
    fact=fact*i
```

```
print("factorial of",n,"is:", fact)
```

**Output:**

5

factorial of 5 is: 120