1. ''' write a program to print tables of given numbers

x*1=y

x*2=y

x*3=y   '''

code:

```python
x=int(input())              # taking input from user
for i in range (1,11,1):    #  i give here Range (start point, end point, Step size)
                y=x*i
 print(f"{x}x{i}={y}")       # I used here f(method),it will print different datatypes of values
```

output:

```
 input=21
21x1=21
21x2=42
21x3=63
21x4=84
21x5=105
21x6=126
21x7=147
21x8=168
21x9=189
21x10=210
```

2. # wrtie a program to print factorial of a girvn number

sample :

o/p 5:5*4*3*2*1=120 .

code:

```python
num=int(input())
fact=1
for i in range(num,0,-1):  # I give here num in first position,it is taking num variable
         fact=fact*i
  print(fact)
```

output:

```
num=5   120
```

3. # write a program to calculate sum fo 1st 5 number's

Code:

```
sum=0
for i in range(1,6,1):
        sum=sum+i
print(sum)
```

output:

15

4. # write a program to calclulate sum of values of given range.

Code:

```
num1=int(input())
num2=int(input())                # i'm taking input from user
sum=0
for i in range(num1,num2,1):  # I decleared here take input values as start and end positions
        sum=sum+I           # here sum stored a value every time
print(sum)
```

output:

num1=1

num2=5

10

5. # write a program to count number of odd numbers from 1 to 30

Code:

```
count=0
for i in range(1,31,1):
    if(i%2==1):
          count=count+1   # here count stored a value every time
    else:          # else is not neccesary
        count=count
print(count)
```

output: 15

6. # write a program to count total number of values, num of even,numof odd within a given range.

Code:

```
sr=int(input())

er=int(input())

nc=0

ec=0

oc=0

for i in range(sr,er+1,1):  # system will read upto 9,er+1 read upto end value

    nc=nc+1

    if(i%2==1):

        oc=oc+1

    else:

        ec=ec+1

print(f"count of numbers={nc}\ncount of even={ec}\ncount of odd={oc}")    # F(method)
```

code:

```
sr = 1

er =10

count of numbers=10

count of even=5

count of odd=5
```