

1. Write a Python Program to Find the Factorial of a Number?

In [2]:

```
1 n=int(input('enter number'))
2 m=1
3 for i in range(1,n+1):
4     m=m*i
5 print(m)
6
```

enter number6
720

2. Write a Python Program to Display the multiplication Table?

In [5]:

```
1 n=int(input('enter table number'))
2 for i in range(1,11):
3     print(f'{n}X{i}={n*i}')
```

enter table number15
15X1=15
15X2=30
15X3=45
15X4=60
15X5=75
15X6=90
15X7=105
15X8=120
15X9=135
15X10=150

3. Write a Python Program to Print the Fibonacci sequence?

In [9]:

```
1 n=int(input('enter the no.of term'))
2 a=0
3 b=1
4 list1=[]
5 for i in range(n):
6     n=a+b
7     a=b
8     b=n
9     list1.append(a)
10 print(list1)
11
```

enter the no.of term5
[1, 1, 2, 3, 5]

4. Write a Python Program to Check Armstrong Number?

In [26]:

```
1 def myfun(n):
2     x=len(str(n))
3     sum=0
4     ele=n
5     while ele>0:
6         digit=ele%10
7         sum += digit**x
8         ele=ele//10
9     return sum
10 num=int(input('enter the number'))
11 if myfun(num)==num:
12     print('number is armstrong :',num)
13 else:
14     print('number is not armstrong:',num)
```

enter the number9
number is armstrong : 9

5. Write a Python Program to Find Armstrong Number in an Interval?

In [28]:

```
1 def myfun1(n):
2     list1=[]
3     for i in range(1,n):
4         sum=0
5         x=len(str(i))
6         ele=i
7         while ele>0:
8             digit=ele%10
9             sum += digit**x
10            ele=ele//10
11            if i==sum:
12                list1.append(i)
13        return list1
14 num=int(input('enter range'))
15 myfun1(num)
16
```

enter range 250

Out[28]: [1, 2, 3, 4, 5, 6, 7, 8, 9, 153]

6. Write a Python Program to Find the Sum of Natural Numbers?

In [32]:

```
1 num=int(input('enter range of number'))
2 sum=0
3 for i in range(1,num+1):
4     sum=sum+i
5 print(sum)
6
7
8
```

enter range of number100
5050

In []:

```
1
```