

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

```
In [5]: x = int(input())
        factorial = 1
        for i in range(x, 0, -1):
            factorial = factorial*i
        print(factorial)
```

```
5
120
```

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

```
In [6]: x = int(input())
        for i in range(1, 11):
            print(x, "*", i, "=", i*x)
```

```
5
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50
```

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

```
In [7]: a = int(input("Enter the Number: "))
        x = 0
        y = 1
        z = 0
        while (z<=a):
            print(z)
            x=y
            y=z
            z = x+y
```

```
Enter the Number: 100
0
1
1
2
3
5
8
13
21
34
55
89
```

4. Write a Python Program to Check Armstrong Number?

```
In [7]: i = int(input("Enter the number: "))
        original = i
        sum = 0
```

```
while i>0:
    i1 = i%10
    sum = sum+(i1**3)
    i = i//10
if sum == original:
    print("Given num is an Armstrong Number")
else:
    print("No, Given num is not an Armstrong Number")
```

Enter the number: 153
Given num is an Armstrong Number

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

```
In [11]: n1 = int(input("Enter the Num1 :"))
n2 = int(input("Enter the Num2 :"))
for i in range(n1, n2+1):
    num = i
    sum=0
    while i>0:
        i1=i%10
        sum = sum+i1**3
        i=i//10
    if sum==num:
        print(num)
```

Enter the Num1 :1
Enter the Num2 :100
1
64

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

```
In [14]: g = int(input("Enter the number: "))
sum = 0
i = 1
while i<=g:
    sum+= i
    i = i+1
print("Sum of given natural number is :", sum)
```

Enter the number: 10
Sum of given natural number is : 55

In []: