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

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

```
In [2]: 1    num = int(input("Enter a Number: "))
for i in range(1, 11):
    print(num, "x", i, '=', num*i)

Enter a Number: 9
9 x 1 = 9
9 x 2 = 18
9 x 3 = 27
9 x 4 = 36
9 x 5 = 45
9 x 6 = 54
9 x 7 = 63
9 x 8 = 72
9 x 9 = 81
9 x 10 = 90
```

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

[0, 1, 1, 2, 3, 5, 8, 13, 21, 34]

# 4. Write a Python Program to Check Armstrong Number?

```
In [4]:
         1 | num = int(input("Enter a Number: "))
         2 for i in range(num+1):
         3
               num=i
              result = 0
          5
              n= len(str(i))
              while(i!=0):
         7
                 digit=i<mark>%</mark>10
                    result = result + digit**n
         9
                    i = i / / 10
         10 | if num==result:
         print(num, "It's an ARMSTRONG Number!")
                print(num, "It's NOT an ARMSTRONG Number!")
         13
```

153 It's an ARMSTRONG Number!

Enter a Number: 153

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

```
In [5]:
         1 x = int(input("Enter a starting Number of Range: "))
          2 y = int(input("Enter a starting Number of Range: "))
          3 print("The Armstrong Numbers in the range mentioned are:")
         4 for i in range(x,y):
          5
                num=i
                result = 0
          6
          7
                n= len(str(i))
          8
                while(i!=0):
          9
                    digit=i%10
         10
                    result = result + digit**n
                    i = i//10
         11
         12
                if num==result:
         13
                    print(num, end=" ")
```

Enter a starting Number of Range: 100 Enter a starting Number of Range: 10000 The Armstrong Numbers in the range mentioned are: 153 370 371 407 1634 8208 9474

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

```
In [6]: | 1 | num1 = int(input("enter a number 1: "))
         2 num2 = int(input("enter a number 2: "))
         3 print("The Sum of two Numbers is",num1+num2)
        enter a number 1: 2
        enter a number 2: 3
        The Sum of two Numbers is 5
In [ ]: 1
```