

BASIC PHYTON ASSIGNMENT 4

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

```
def factorial():
    '''
    this function will calculate the factorial of a given number.
    '''
    try:
        num = int(input("Enter the number: "))

        if num<0:
            print("\nFactorial of negative number does not exists.")
        elif num==0 or num==1:
            print("\nFactorial of {} is 1.".format(num))
        else:
            result = 1
            for i in range(2,num+1):
                result *= i
            print("\nFactorial of {} is {}".format(num,result))
    except Exception as e:
        print("\nSome exception occurred: ",e)
```

factorial()

Enter the number: 5

Factorial of 5 is 120.

In [12]:

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

```
def printTable():
    '''
    this function will print the multiplication table of a given number.
    '''
    try:
        num = int(input("Enter the number: "))

        for i in range(1,11):
            print("{} x {} = {}".format(num,i,num*i))

    except Exception as e:
        print("\nSome exception occurred: ",e)
```

printTable()

Enter the 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
```

In [17]:

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

```
def fibonacci():
    '''
    this function will print n terms of a fibonacci sequence.
    '''
    try:
        n_terms = int(input("How many number of terms to print of fibonacci
sequence: "))
        num1 = 0
        num2 = 1

        for i in range(n_terms):
            print(num1)
            num1, num2 = num2 , num1+num2

    except Exception as e:
        print("\nSome exception occurred: ",e)
```

```
fibonacci()
```

```
How many number of terms to print of fibonacci sequence: 7
```

```
0
1
1
2
3
5
8
```

In [36]:

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

```
def checkArmstrong():
    '''
    this function will check whether given number is an armstrong number or
not.
    '''
    try:
        num = int(input("Enter the number: "))

        temp = str(num)
        length = len(temp)
        temp = int(temp)
        result = 0

        while temp>0:
            remainder = temp%10
            result += remainder**length
```

```

        temp //= 10

    if num==result:
        print("\n{} is an armstrong number.".format(num))
    else:
        print("\n{} is not an armstrong number.".format(num))

except Exception as e:
    print("\nSome exception occurred: ",e)

```

checkArmstrong()

Enter the number: 407

407 is an armstrong number.

In [39]:

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

```

def printArmstrong(num):
    '''
    this function will print all armstrong number in an interval.
    '''
    try:
        temp = str(num)
        length = len(temp)
        temp = int(temp)
        result = 0

        while temp>0:
            remainder = temp%10
            result += remainder**length
            temp //= 10

        if num==result:
            print("\n{} is an armstrong number.".format(num))
        else:
            print("\n{} is not an armstrong number.".format(num))
    except Exception as e:
        print("\nSome exception occurred: ",e)

try:
    lb = int(input("Enter the Lower bound of interval(inclusive): "))
    ub = int(input("Enter the Upper bound of interval(inclusive): "))

    for i in range(lb,ub+1):
        printArmstrong(i)

except Exception as e:
    print("\nSome exception occurred: ",e)

Enter the Lower bound of interval(inclusive): 1
Enter the Upper bound of interval(inclusive): 1000

1 is an armstrong number.

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In [47]:

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

```
def sumNatural():  
    '''  
    this function will give the sum of first n natural numbers.  
    '''  
    try:  
        num = int(input("Enter the number to find sum of n natural numbers:  
"))  
  
        result = int((num*(num+1))/2)  
  
        print("\nSum of first {} natural numbers is: {}".format(num,result))
```

```
except Exception as e:  
    print("\nSome exception occurred: ",e)
```

```
sumNatural()
```

```
Enter the number to find sum of n natural numbers: 10
```

```
Sum of first 10 natural numbers is: 55.
```

In []: