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

**Ans.** def factorial\_recursion(num):

return 1 if num == 1 else (num \*factorial\_recursion (num-1))

num = int (input ("enter a number "))

print ("factorial of entered number {} is {}". format (num, factorial\_recursion(num)))

1. **Write a Python Program to Display the multiplication Table?**

**Ans.** i=1

n=6

while i<=10:

print (n,'\*',i,'=',n\*i)

i=i+1

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

**Ans.** fibb = int (input("Enter a number : "))

X = 0

Y = 1

Sum = 0

if fibb <= 0:

print("please enter a positive number")

else:

for i in range (0,fibb):

print(Sum,end = " ")

X = Y

Y = Sum

Sum = X+Y

1. **Write a Python Program to Check Armstrong Number?**

**Ans.** Num = int (input("Enter a number : "))

original = Num

Sum = 0

While Num > 0:

Sum = Sum + (Num %10)\*(Num %10)\*(Num %10)

Num = Num //10

if original == Sum :

print ("Entered number is armstrong number")

else:

print ("Entered number is not a armstrong number")

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

**Ans.** N = int(input("Enter first number : "))

M = int(input("Enter last number : "))

Flag = False

for i in range (N,M+1):

length = len(str(i))

Sum = 0

temp = i

while temp > 0:

Digit = temp%10

Sum += Digit\*\*length

temp = temp//10

if (i==Sum):

Flag = True

print (i , end = " ")

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

**Ans.** X = int(input("Enter first number : "))

Y = int(input("Enter last number : "))

Sum = 0

for i in range (X,Y+1):

Sum = Sum +i

print (Sum,end = " ")