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

**Sol:**

def find\_fact(num):

if num ==1:

return 1

else:

return find\_fact(num-1)\*num

number = int(input())

print(find\_fact(number))

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

**Sol:**

number = int(input())

for i in range(11):

product = number\*i

print(str(number) + " \* " + str(i)+ " = " + str(product))

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

**Sol:**

def fibonacci\_series(num):

if num <= 1:

return num

else:

return fibonacci\_series(num-1)+fibonacci\_series(num-2)

print("enter the number for result")

number = int(input())

print(fibonacci\_series(number))

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

**Sol:**

def sum\_cube\_digit(num):

sum = 0

while(num>0):

remainder = int(num%10)

sum = sum + pow(remainder, 3)

num = int(num/10)

return sum

number= int(input())

if number== sum\_cube\_digit(number):

print(str(number)+" is a armstrong number")

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

**Sol**:

def sum\_cube\_digit(num):

sum = 0

while(num>0):

remainder = int(num%10)

sum = sum + pow(remainder, 3)

num = int(num/10)

return sum

lower\_limit = int(input())

upper\_limit = int(input()) # interval (lower\_limit – upper\_limit)

for i in range(lower\_limit, upper\_limit):

if i == sum\_cube\_digit(i):

print(i)

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

**Sol:**

def sum\_nat\_number(num):

if num ==0:

return 0

else:

return sum\_nat\_number(num-1)+num

number = int(input())

print(sum\_nat\_number(number))