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

def factorial(num):

temp =1

for i in range(1,num+1):

temp=temp\*i

print("factorial of "+str(num)+" is : "+str(temp))

def takeInput():

num=int(input("enter any number to find factorial : "))

factorial(num)

if \_\_name\_\_=='\_\_main\_\_':

takeInput()

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

def mult(num):

for i in range(1,11):

print(str(num)+" \* "+str(i)+ " = "+str(num\*i))

def takeInput():

num=int(input("enter any number to print multiplication table : "))

mult(num)

if \_\_name\_\_=='\_\_main\_\_':

takeInput()

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

def fib(num):

a=0

b=1

for i in range(1,num+1):

a,b=b,a+b

print(b)

def takeInput():

num=int(input("enter any number to print it's fiboncci : "))

fib(num)

if \_\_name\_\_=='\_\_main\_\_':

takeInput()

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

def check(num):

temp1=num

sum\_=0

while temp1>0:

temp2= temp1 %10

sum\_= sum\_+temp2\*\*3

temp1 = temp1//10

if num==sum\_:

print(str(num)+ " is armstrong")

else:

print(str(num)+ " is not armstrong")

def takeInput():

num=int(input("enter any number to check armstrong: "))

check(num)

if \_\_name\_\_=='\_\_main\_\_':

takeInput()

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

def check(num1,num2):

for i in range(num1,num2+1):

order=len(str(i))

sum\_=0

temp1=i

while temp1>0:

temp2= temp1 %10

sum\_= sum\_+temp2\*\*3

temp1 = temp1//10

if i==sum\_:

print(str(i)+ " is armstrong")

def takeInput():

num1=int(input("enter 1st number to check armstrong: "))

num2=int(input("enter last number to check armstrong: "))

check(num1,num2)

if \_\_name\_\_=='\_\_main\_\_':

takeInput()

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

def check(num):

sum=num\*(num+1)/2

print("sum of natural numbers for ",num," is",int(sum))

def takeInput():

num=int(input("enter any positive number "))

check(num)

if \_\_name\_\_=='\_\_main\_\_':

takeInput()