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

n = int(input('Enter a number to find factorial: '))

j = 1

for i in range(n):

j = j \* (i + 1)

print('Factorial of', n, 'is:', j)

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

n = int(input('Enter a number for its multiplication table: '))

l = [1,2,3,4,5,6,7,8,9,10]

for i in l:

m = n \* i

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

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

n = int(input('Enter length of the fibonnaci series: '))

l = [0,1]

i = 0

j = 1

if n <= 0:

print('Enter positive number')

elif n == 1:

print('Fibonnaci Series of length', n, ':', i)

elif n == 2:

print('Fibonnaci Series of length', n, ':', l)

elif n == 3 or n == 4 or n == 5:

for m in range(n-2):

o = i + j

i = o

l.append(o)

print('Fibonnaci Series of length', n, ':', l)

else:

for m in range(3):

o = i + j

i = o

l.append(o)

j = 2

for k in range(n-5):

o = i + j

j = i

i = o

l.append(o)

print('Fibonnaci Series of length', n, ':', l)

1. Write a Python Program to Check Armstrong Number?

n = input('Enter a number: ')

m=0

for i in n:

m = m + int(i)\*\*len(n)

if int(n) == m:

print(n, 'is an armstrong number')

else:

print(n, 'is not an armstrong number')

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

n = int(input('Enter starting number: '))

m = int(input('Enter ending number: '))

o=n

l=[]

while n <= m:

l.append(n)

n=n+1

p=[]

for i in l:

k=0

for j in str(i):

k = k + int(j)\*\*len(str(i))

if i == k:

p.append(k)

print('Armstrong numbers in range of', o, 'and', m, 'are:', p)

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

n = int(input('Enter a range for sum of natural numbers: '))

m=0

for i in range(n):

m = m + (i+1)

print('Sum of natural numbers upto', n, 'is:', m)