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

from functools import reduce

def factorial(a):

l = []

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

l.append(i)

return reduce(lambda x,y:x\*y,l)

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

number = int(input('Enter number to be checked: '))

for i in range(0,11):

print(f'{number} X {i} = {number\*i}')

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

def fibo(n):

a=1

b=1

for i in range(n):

print(a)

a,b = b,b+a

1. Write a Python Program to Check Armstrong Number?

from functools import reduce

def armstrongchecker(a):

l= []

v=[]

k = str(a)

for i in range(len(k)):

l.append(i)

for j in l:

v.append(int(k[j])\*\*len(k))

if reduce(lambda x,y:x+y,v) == a:

print('This is an armstrong number')

else:

print('This is not an armstrong number')

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

lower=1

upper=50000

for b in range(lower,upper+1):

l= []

v=[]

k = str(b)

for i in range(len(k)):

l.append(i)

for j in l:

v.append(int(k[j])\*\*len(k))

if reduce(lambda x,y:x+y,v) == b:

print(b)

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

a = int(input("Please enter a positive number"))

k=0

if a<0:

print('This is not a positive number')

else:

while a>0:

k = a + k

a=a-1

print(k)