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

num = int(input('enter no:' ))

fact = 1

if num <0:

print('invalid no')

elif num ==1:

print('factorial is 1')

else:

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

fact = fact \*i

print('factorial is ', fact)

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

num = int(input('enter the num: '))

for i in range(1, 11):

print(num \* i)

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

nterms = int(input("How many terms? "))

n1, n2 = 0, 1

count = 0

if nterms <= 0:

print("Please enter a positive integer")

elif nterms == 1:

print("Fibonacci sequence upto",nterms,":")

print(n1)

else:

print("Fibonacci sequence:")

while count < nterms:

print(n1)

nth = n1 + n2

# update values

n1 = n2

n2 = nth

count += 1

1. Write a Python Program to Check Armstrong Number?

num = int(input("Enter a number: "))

sum = 0

temp = num

while temp > 0:

digit = temp % 10

sum += digit \*\* 3

temp //= 10

if num == sum:

print(num,"is an Armstrong number")

else:

print(num,"is not an Armstrong number")

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

lower = 100

upper = 2000

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

# order of number

order = len(str(num))

# initialize sum

sum = 0

temp = num

while temp > 0:

digit = temp % 10

sum += digit \*\* order

temp //= 10

if num == sum:

print(num)

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

num = 16

if num < 0:

print("Enter a positive number")

else:

sum = 0

# use while loop to iterate until zero

while(num > 0):

sum += num

num -= 1

print("The sum is", sum)