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

A: # factorial of a num

num=int(input(' {} enter the num'.format(num)))

l=[]

for i in range(2,num):

if num%i==0:

l.append(i)

print('factorial of {} is {}'.format(num,l))

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

A: num=int(input(' {} enter the num'.format(num)))

for i in range(1,11):

print(num, 'x', i, '=', num\*i)

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

A: def recur\_fibo(n):

if n <= 1:

return n

else:

return(recur\_fibo(n-1) + recur\_fibo(n-2))

# take input from the user

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

# check if the number of terms is valid

if nterms <= 0:

print("Plese enter a positive integer")

else:

print("Fibonacci sequence:")

for i in range(nterms):

print(recur\_fibo(i))

1. Write a Python Program to Check Armstrong Number?

A: # Changed num variable to string,

# and calculated the length (number of digits)

num=int(input(" enter your input:"))

order = len(str(num))

# initialize sum

sum = 0

# find the sum of the cube of each digit

temp = num

while temp > 0:

digit = temp % 10

sum += digit \*\* order

temp //= 10

# display the result

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?

A: # Program to check Armstrong numbers in a certain 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?

A: num = 5

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)