Python Assignment-4

1. Write a Python Program to Find the Factorial of a Number?
2. num = int (input ("Enter a number: "))

factorial = 1

if num < 0:

print ("Factorial is not defined for negative numbers.")

elif num == 0:

print ("The factorial of 0 is 1")

else:

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

factorial \*= i

print (f"The factorial of {num} is {factorial}")

### Write a Python Program to Display the multiplication Table?

1. number = int (input ())

**print** ("The Multiplication Table of: ", number)

**for** count **in** range (1, 11):

**print** (number, 'x', count, '=', number \* count)

### Write a Python Program to Print the Fibonacci sequence?

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A.

n = int (input ())

a = 0

b = 1

**for** i **in** range(0,n):

**print** (a, end = " ")

c = a+b

  a = b

b = c

### Write a Python Program to Check Armstrong Number?

1. n = str (int (input ()))

digit\_sum = 0

for i in n:

digit\_sum = digit\_sum + int(i)\*\*len(n)

if int(n) == digit\_sum:

print (n, "is an Armstrong number")

else:

print (n, "is not an Armstrong number)

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

1. lower = int (input ())

upper = int (input ())

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

sum = 0

temp = num

**while** temp > 0:

digit = temp % 10

sum += digit \*\* 3

temp //= 10

**if** num == sum:

**print**(num)

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

1. n = int(input ())

if n <= 0:

print ("Please enter a positive integer.")

else:

sum\_of\_natural\_numbers= (n \* (n + 1)) // 2

print (f"The sum of natural numbers from 1 to {n} is: {sum\_of\_natural\_numbers}")

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