**Programming Assignment\_6**

1. Write a Python Program to Display Fibonacci Sequence Using Recursion?

def fibo(a,b,c):

if c > 0:

c -= 1

print(a, end=' ')

temp = b

b = a + b

a = temp

fibo(a,b,c)

fibo(0,1,10)

**2. Write a Python Program to Find Factorial of Number Using Recursion?**

def fact(n):

if n == 0:

return 1

else:

return n\*fact(n-1)

fact(5)

fact(7)

**3. Write a Python Program to calculate your Body Mass Index?**

def bmi(height, weight):

return weight/(height\*height)

bmi(1.8, 70)

**4. Write a Python Program to calculate the natural logarithm of any number?**

import math

try:

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

except Exception as e:

print(e)

else:

print(math.log(num))

**5. Write a Python Program for cube sum of first n natural numbers?**

def cubN(n):

return sum(range(n+1))\*\*3

cubN(3)

cubN(4)