**Programming Assignment 6**

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

Ans.)

def fibo(a,b,c):

    if c > 0:

        c -= 1

        print(a, end=' ')

        temp = b

        b = a + b

        a = temp

        fibo(a,b,c)

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

Ans.)

def fact(n):

    if n == 0:

        return 1

    else:

        return n\*fact(n-1)

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

Ans.)

def bmi(height, weight):

    return weight/(height\*height)

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

Ans.)

import math

try:

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

except Exception as e:

    print(e)

else:

    print(math.log(num))

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

Ans.)

def cubN(n):

    return sum(range(n+1))\*\*3