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

def fib(n):

if n <= 1:

return n

else:

return (fib(n-1) + fib(n-2))

n = int(input("Enter the term for Fibonacci sequence : "))

if n <= 0:

print("Enter positive number.")

else:

print("Fibonacci sequence are :")

for i in range (n):

print(fib(i))

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

def fac(n):

if n == 1:

return n

else:

return (n \* fac(n-1))

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

if n <= 0 :

print("Enter positive number.")

elif n == 1:

print("Factorial of 1 is 1.")

else:

print(fac(n))

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

num1 = int(input("Enter the the weight : "))

num2 = int(input("Enter hight in CM : "))

hight\_m = num2/100

bmi = num1 / (hight\_m \*\* 2)

print("BMI is : ", bmi)

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

import math

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

n\_log = math.log(num)

print("Natural Log of {} is {}.".format(num, n\_log))

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

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

cube\_sum = ((num \* (num + 1))/2) \*\* 2

print(cube\_sum)