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

def fibo(n):

if n<=1:

return n

else:

return(fibo(n-1) + 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(fibo(i))

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

def fact(x):

if x==1:

return x

else:

return x\*fact(x-1)

x=int(input("Enter Number"))

if x<=0:

print("Please Enter Positive Number")

else:

print(fact(x))

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

def BMI(height, weight):

bmi = weight/(height\*\*2)

return bmi

# Driver code

height = 1.79832

weight = 70

# calling the BMI function

bmi = BMI(height, weight)

print("The BMI is", format(bmi), "so ", end='')

# Conditions to find out BMI category

if (bmi < 18.5):

print("underweight")

elif ( bmi >= 18.5 and bmi < 24.9):

print("Healthy")

elif ( bmi >= 24.9 and bmi < 30):

print("overweight")

elif ( bmi >=30):

print("Suffering from Obesity")

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

import math

print ("Log value for base 4 : ")

print (math.log(20,4))

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

def sumOfSeries(n):

sum = 0

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

sum +=i\*i\*i

return sum

# Driver Function

n =int(input("Enter any Number"))

print(sumOfSeries(n))