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

def fibo(x): *#series starts from 0 and 1, next term is the sum of previous two*

if x<=1: *#function to return sum of prev two terms unless term is <=1*

return x

else:

return(fibo(x-1)+fibo(x-2))

n = int(input('enter number of terms '))

for i in range(n):

print (fibo(i))

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

def fact(n):

if n==1:

return 1

else:

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

num = int(input('enter a number '))

print(fact(num))

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

w = float(input('enter weight in kgs '))

h = float(input('enter height in cms '))

*#formula for BMI is weight in kilograms divided by height in meters squared*

*#height is commonly measured in cms, hence multiplying by 10000*

bmi = round(((w\*10000)/(h\*h)),1)

print ('BMI is:', bmi )

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

from numpy import \* *#to import log function*

num = int(input('enter a number '))

print ('natural log of ',num, 'is', log(num))

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

n = int(input('enter number of terms '))

sum = 0

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

sum = sum +i\*\*3

print ('cube sum of first', n, 'natural numbers is:', sum)