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))

fibo(n)

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

if n <= 0 :

print("enter valid number")

else :

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 n

else :

return n \* fact(n - 1)

fact(n)

n = int(input("enter a number : "))

if n < 0 :

print("numnber is negative")

elif n == 0 :

print("factorial of 0 is 1")

else :

print("factorial of", n ,"is :", fact(n))

o\p - enter a number : 5

factorial of 5 is : 120

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

w = float(input("enter your weight : "))

h = float(input("enter your height : "))

cal = round(w / (h \* h),2)

print("BMI is : ",cal)

o/p - enter your weight : 45.7

enter your height : 5.6

BMI is : 1.46

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

import math

n = int(input("enter a number : "))

base = int(input("enter a base number : "))

print ("Logarithm base 5 of 14 is : ", end="")

print (math.log(n , base))

o\p - enter a number : 14

enter a base number : 5

Logarithm base 5 of 14 is : 1.6397385131955606

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

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

a = 0

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

a = a + i \* i \* i

print(a)