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

Ans1.

def Fib(n):

if(n == 0):

return 0

elif(n == 1):

return 1

else:

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

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

for i in range(0, n):

print(Fib(i))

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

Ans2.

def Fact(n):

if(n == 0):

return 1

else:

return n\*Fact(n-1)

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

Fact(n)

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

Ans3.

import logging as lg

lg.basicConfig(level = lg.INFO)

def bmi():

try:

w=float(input('Enter your weight: '))

h=float(input('Enter your height: '))

lg.info("Calculate BMI")

return round((w)/(h\*\*2),2)

except Exception as e:

return 'Error has occured: '+str(e)

bmi()

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

Ans4.

import logging as lg

import math

lg.basicConfig(level = lg.INFO)

def loga():

try:

n=float(input('Enter your number: '))

lg.info("Calculate Log")

return (math.log(n))

except Exception as e:

return 'Error has occured: '+str(e)

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

Ans5.

import logging as lg

lg.basicConfig(level = lg.INFO)

def cube():

try:

n=int(input('Enter your number: '))

lg.info("Calculate Log")

a=0

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

a=a+i\*\*3

return a

except Exception as e:

return 'Error has occured: '+str(e)

cube()