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

Ans-

def feb(n):

if n<=1:

return n

else:

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

n=int(input("How many terms? "))

if n<= 0:

print("Plese enter a positive integer")

else:

print("Fibonacci sequence:")

for i in range(n):

print(feb(i))

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

Ans-

def fact(n):

if n==0:

return 1

while n>0:

return n\*fact(n-1)

fact(3)

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

Ans-

height = **float**(input("Enter the height in cm: "))

weight = **float**(input("Enter the weight in kg: "))

# defining a function **for** BMI

BMI = weight / (height/100)\*\*2

print("Your Body Mass Index is", BMI)

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

Ans-

import math

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

ans = math.log(number)

print("The value is:",ans)

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

Ans-

n=int(input("enter the number"))

sum1=0

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

sum1+=i\*\*3

print(f"cube sum of first {n} natural numbers is : {sum1}")