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

Answer=

def fiboseq(n):  
 if n<=1:  
 return n  
 else :  
 return (fiboseq(n-1)+ fiboseq(n-2))  
  
 nterm=int(input("Enter "))  
 if n<=0:  
 print("ENter a positive numbers")  
 else:  
 print("numbers")  
 for i in range(nterm):  
 print(fiboseq(i))  
  
print(fiboseq(8))

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

Answer=

import math  
def fact(n):  
 return math.factorial(n)  
no=int(input("Enter a number:"))  
f=fact(no)  
print(f"Factorial of {no} is {f}")

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

Answer:-

height=float(input("Enter a height:"))  
weight=float(input("Enter a weight:"))  
bmi=weight/height\*\*2  
  
if bmi<18.5:  
 print("Underweight")  
elif bmi>18.5 and bmi<25:  
 print("normal weight")  
elif bmi>25 and bmi<30:  
 print("slighty overweight")  
elif bmi>30 and bmi<35:  
 print("obese")  
elif bmi>35:  
 print('clinically obese')  
else:  
 print("Error")

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

Answer-

import math  
n=float(input("Enter a number"))  
print(math.log(n))

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

Answer-

n=int(input())  
s=0  
for i in range(0,n):  
 s+=i  
print(s\*\*3)