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

**Ans:**

**def fibb(n):**

**if n <= 1:**

**return n**

**else:**

**return(fibb(n-1) + fibb(n-2))**

**nterms = int(input())**

**# check if the number of terms is valid**

**if nterms <= 0:**

**print("Plese enter a positive integer")**

**else:**

**for i in range(nterms):**

**print(fibb(i))**

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

**Ans:**

**def fact(num):**

**if num<=1:**

**return num**

**else:**

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

**num=int(input("Enter an integer > "))**

**print(fact(num))**

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

**Ans:**

**w=float(input("Enter weight in kg > "))**

**h=float(input("Enter height in m > "))**

**print(w/(h\*\*2))**

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

**Ans:**

**import math**

**num=int(input('Enter a number > '))**

**print(math.log(num))**

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

**Ans:**

**num=int(input("Enter n > "))**

**sum=0**

**for i in range(1,num+1):**

**sum+=(i\*\*3)**

**print(sum)**