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

***def recur\_fibo(n):***

***if n<=1:***

***return n***

***else:***

***return(recur\_fibo(n-1)+recur\_fibo(n-2))***

***nterms=int(input("enter number of terms"))***

***if nterms<=0:***

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

***else:***

***print("Fibonacci sequence:")***

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

***print(recur\_fibo(i))***

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

***def r\_factorial(n):***

***if n==1:***

***return n***

***else:***

***return n\*r\_factorial(n-1)***

***num=int(input("Enter a number: "))***

***if num<0:***

***print("factorial does not exist for negative number")***

***elif num==0:***

***print("The factorial of 0 is 1")***

***else:***

***print("The factorial of",num,"is",r\_factorial(num))***

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

***height=float(input("Enter height in meters: "))***

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

***bmi=weight/(height\*\*2)***

***print("Your BMI is:{0} and you are: ".format(bmi),end='')***

***if(bmi<16):***

***print("severe underweight")***

***elif (bmi>=16 and bmi<18.5):***

***print("underweight")***

***elif (bmi>= 18.5 and bmi<25):***

***print("Healthy")***

***elif (bmi>=25 and bmi<30):***

***print("overweight")***

***elif (bmi>=30):***

***print("severe overweight")***

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

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

***def findcubesum(n):***

***sum=0***

***for value in range(1,n+1):***

***sum+=value\*\*3***

***return sum***

***n=int(input("enter the value of n:"))***

***print("cubesum:",findcubesum(n))***