1. Write a Python Program to Display Fibonacci Sequence Using Recursion?  
   def fib(a):

if(a<=1):

return a

else:

return(fib(a-1)+fib(a-2))

n=int(input("Enter the value"))

if(n<=0): print("No is negative")

else:

for i in range(n):

print(fib(i))

1. Write a Python Program to Find Factorial of Number Using Recursion?  
   def fact(a):

if(a==1):

return a

else:

return a\*fact(a-1)

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

if(n<0):

print("No is negative")

elif(n==0):

print("factorial of 0 is 1")

else:

print("factorial ", fact(n))

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

def bmi(a,b):

BMI=(703\*b)/(a\*a)

print(BMI)

return BMI

h=float(input("Enter the Height:"))

w=float(input("Enter the weight: "))

BMI=bmi(h,w)

print("Your BMI is {0}".format(BMI))

if(BMI<18.5): print("Underweight")

elif(BMI>=18.5 and BMI<24.9): print("Healthy")

elif(BMI>=24.9 and BMI<30): print("Overweight")

elif(BMI>=30): print("Obesity")

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

print("math.log(100.12)",math.log(100.12))

print("math.log(100.72)", math.log(100.72))

print("math.log(math.pi)", math.log(math.pi))

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

def sos(n):

sum=0

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

sum=sum+i\*i\*i

return sum

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

print(sos(n))