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

def fibonacci(n):

if n<=1:

return n

else:

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

n=int(input("Enter a positive number "))

if n<=0:

print("Please enter a positive integer.")

else:

for i in range(n):

print(fibonacci(i))

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

def fact(n):

if n==0 or n==1:

return 1

else:

return n\*fact(n-1)

print(fact(5))

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

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

def bodymassindex(weight,height):

bmi=weight/(height\*height)

return bmi\*703

weight=int(input("Enter your weight "))

height=int(input("Enter your height "))

result = bodymassindex(weight,height)

print("The Body Mass Index is {:.2f}".format(result))

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

import math

def log(number):

logarithm = math.log(number)

return logarithm

number = float(input("Enter a number: "))

result = log(number)

print("The natural logarithm of", number, "is", result)

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

def cube\_sum(n):

sum = 0

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

sum += i\*\*3

return sum

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

print(f"cube sum of first {n} natural numbers is {cube\_sum(n)}")