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

**Ans:** def fibbonacci (num):

if num == 0:

return 0

elif num == 1:

return 1

else :

return (fibbonacci (num -1) + fibbonacci (num-2))

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

print ("Fibbonacci of num is :- {} ". format (fibbonacci(num)))

for i in range(num):

print(fibbonacci(i))

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

**Ans :** def fibbonacci (num):

if num == 0:

return 0

elif num == 1:

return 1

else :

return (fibbonacci (num -1) + fibbonacci (num-2))

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

print ("Fibbonacci factorial of num is :- {} ". format (fibbonacci(num)))

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

**Ans:** Weight = int(input("Enter the Weight in KG :-"))

Height\_in\_CM = int(input("Enter the Height in CM :-"))

Height = Height\_in\_CM/100

print(f"Height in meter :-{Height}")

BMI = Weight/(Height\*Height)

print(f"BODY MASS INDEX :- {BMI}")

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

**Ans.** import math

Natural\_log = math.log(2)

print (f"Natural\_log of entered number is: {Natural\_log}")

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

**Ans.** num = 1

print("Numbers\tCube")

while(num<=10):

print(num,"\t", num\*\*3)

num = num + 1