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

```
In [15]:
         1 def fib(n):
                if n<0:
          3
                    print('enter positive value')
                elif n<=1:
          5
                    return(n)
                else:
          7
                    return(fib(n-1)+fib(n-2))
          8 x=int(input('enter no.of term'))
          9 for i in range(x):
                print(fib(i))
         enter no.of term 10
        1
         13
         21
         34
```

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

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

factorial of 5 is 120

```
In [8]: 1 def bmi(h,w):
    z = (w/h**2)*703
    return z
    height=float(input('enter height in inch '))
    weight=float(input('enter weight in lbs '))
    print('''BMI = [Weight (lbs) / Height (inches)²] x 703''')
    print(f'the body mass index is : {bmi(height,weight)}')

enter height in inch 65
    enter weight in lbs 150

BMI = [Weight (lbs) / Height (inches)²] x 703
```

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?

the body mass index is : 24.958579881656807