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In [ ]: # Title :- Calculate Fibonacci series using non-recursive and recursive function
In [1]: # Recursive approach:-
        def fibonacci(n):
         if(n <= 1):
             return n
         else:
             return(fibonacci(n-1) + fibonacci(n-2))
        n = int(input("Enter number of terms: "))
        print("*** RECURSIVE APPROACH ***")
        print("Entered Number of Terms:",n)
        myLst = []
        print("Fibonacci sequence:")
        for i in range(n):
         myLst.append(fibonacci(i))
        print(myLst)
        Enter number of terms: 5
        *** RECURSIVE APPROACH ***
        Entered Number of Terms: 5
        Fibonacci sequence:
        [0, 1, 1, 2, 3]
In [1]: # Recursive approach:-
        def fibonacci(n):
         seq = [0, 1]
         for i in range(2, n):
            seq.append(seq[-1] + seq[-2])
         return seq
        n = int(input("Enter number of terms: "))
        print("*** Non RECURSIVE APPROACH ***")
        print("Entered Number of Terms:",n)
        print("Fibonacci sequence:")
        print(fibonacci(n))
        Enter number of terms: 5
        *** Non RECURSIVE APPROACH ***
        Entered Number of Terms: 5
        Fibonacci sequence:
        [0, 1, 1, 2, 3]
```