RECURSIVE

```python
def recur_fibo(n):
   if n <= 1:
      return n
   else:
      return(recur_fibo(n-1) + recur_fibo(n-2))


nterms = 10


# check if the number of terms is valid
if nterms <= 0:
   print("Plese enter a positive integer")
else:
   print("Fibonacci sequence:")
   for i in range(nterms):
      print(recur_fibo(i))
```

OUTPUT:

Fibonacci sequence:

0

1

1

2

3

5

8

13

21

34

NON RECURSIVE

```python
def fibonacci_iterative(n):
        fib_series = [0, 1]
        for i in range(2, n):
                fib_series.append(fib_series[i-1] + fib_series[i-2])
        return fib_series[:n]
n_terms = 10
fib_series = fibonacci_iterative(n_terms)
print(f"Iterative Fibonacci series (first {n_terms} terms): {fib_series}")
```

OUTPUT:

Iterative Fibonacci series (first 10 terms): [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]