

1. Write a program to print Fibonacci series using recursion.

Aim: To print Fibonacci series using recursion

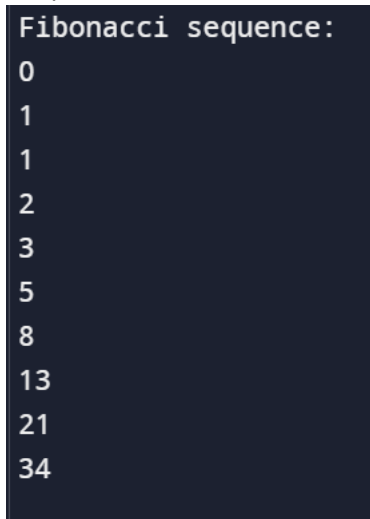
Program:

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

nterms = 10

```
if nterms <= 0:  
    print("Please enter a positive integer")  
else:  
    print("Fibonacci sequence:")  
    for i in range(nterms):  
        print(fibonacci(i))
```

Output:



```
Fibonacci sequence:  
0  
1  
1  
2  
3  
5  
8  
13  
21  
34
```

Time complexity:-  $F(n) = O(2^n)$