

1.WRITE A PROGRAM TO PRINT FIBONACCI SERIES USING RECURSION

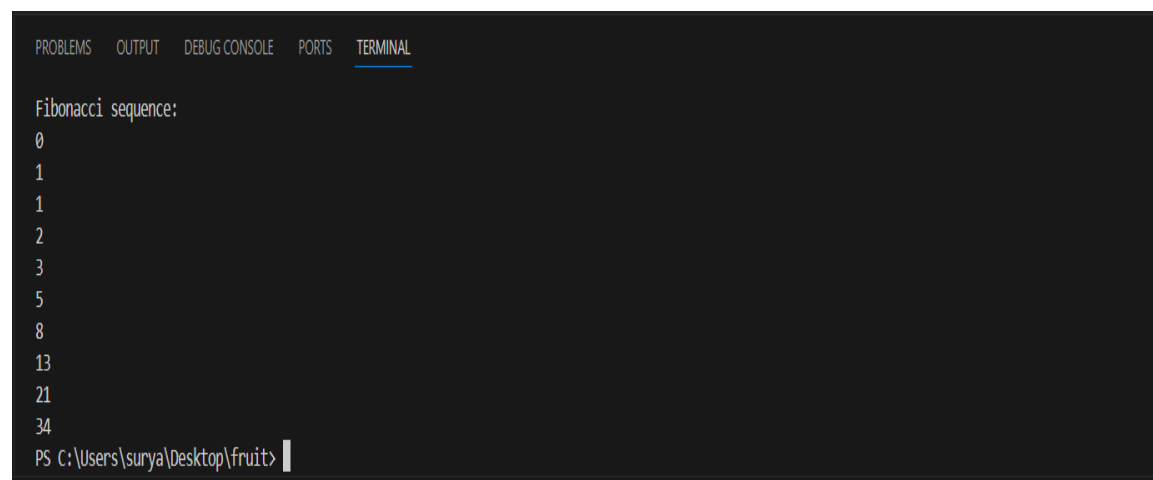
PROGRAM

```
def fibo(n):  
    if n <= 1:  
        return n  
    else:  
        return(fibo(n-1) + 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(fibo(i))
```

TIME COMPLEXITY: $O(n)$

INPUT:10

OUTPUT:



The screenshot shows a terminal window with a dark background. At the top, there are tabs labeled 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'PORTS', and 'TERMINAL', with 'TERMINAL' being the active tab. The terminal displays the output of the program: 'Fibonacci sequence:' followed by the numbers 0, 1, 1, 2, 3, 5, 8, 13, 21, and 34, each on a new line. At the bottom of the terminal, the command prompt shows 'PS C:\Users\surya\Desktop\fruit>' with a cursor.