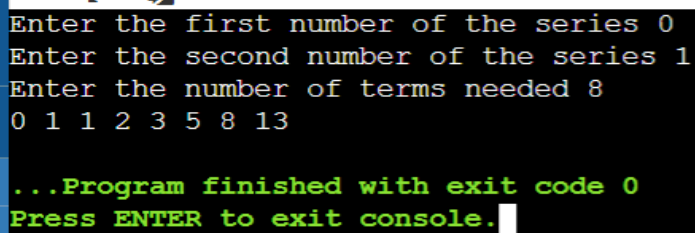


Problem Statement: Write a program non-recursive and recursive program to calculate Fibonacci numbers and analyse their time and space complexity.

CODE:

```
a=int(input("Enter the first number of the series "))
b=int(input("Enter the second number of the series "))
n=int(input("Enter the number of terms needed "))
print(a,b,end=" ")
while(n-2):
    c=a+b
    a=b
    b=c
    print(c,end=" ")
    n=n-1
```

OUTPUT:



```
Enter the first number of the series 0
Enter the second number of the series 1
Enter the number of terms needed 8
0 1 1 2 3 5 8 13

...Program finished with exit code 0
Press ENTER to exit console.
```