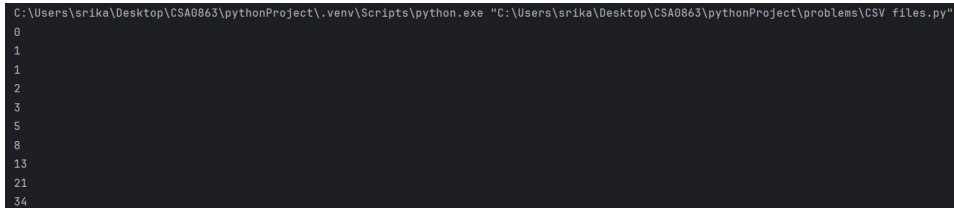


1. Write a program to print fibonacci series using recursion.

Program:

```
def fibonacci(n):  
    if n<=1:  
        return n  
    else:  
        return fibonacci(n-1)+fibonacci(n-2)  
for i in range(10):  
    print(fibonacci(i))
```

Output:



A terminal window showing the execution of a Python script. The command prompt is "C:\Users\srika\Desktop\CSA0863\pythonProject\.venv\Scripts\python.exe "C:\Users\srika\Desktop\CSA0863\pythonProject\problems\CSV_files.py"". The output of the script is the Fibonacci sequence for the first 10 numbers: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34.

```
C:\Users\srika\Desktop\CSA0863\pythonProject\.venv\Scripts\python.exe "C:\Users\srika\Desktop\CSA0863\pythonProject\problems\CSV_files.py"  
0  
1  
1  
2  
3  
5  
8  
13  
21  
34
```

Time complexity:

$$F(n)=O(n^2)$$