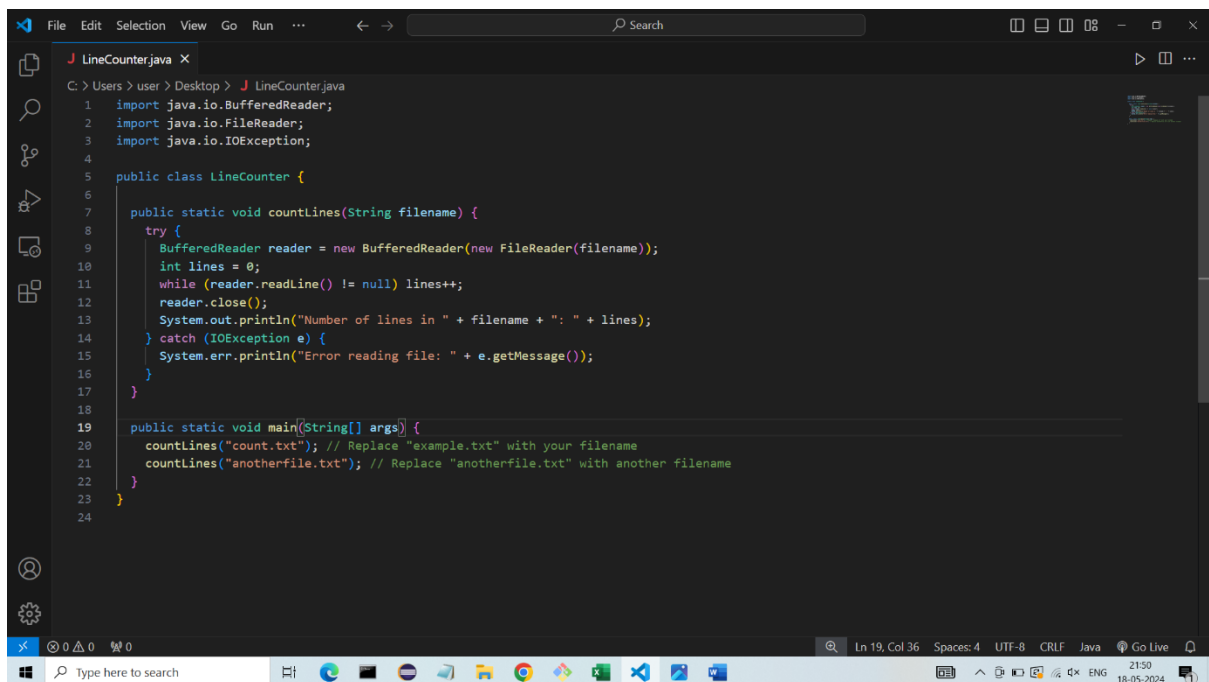


# Assignment 03:

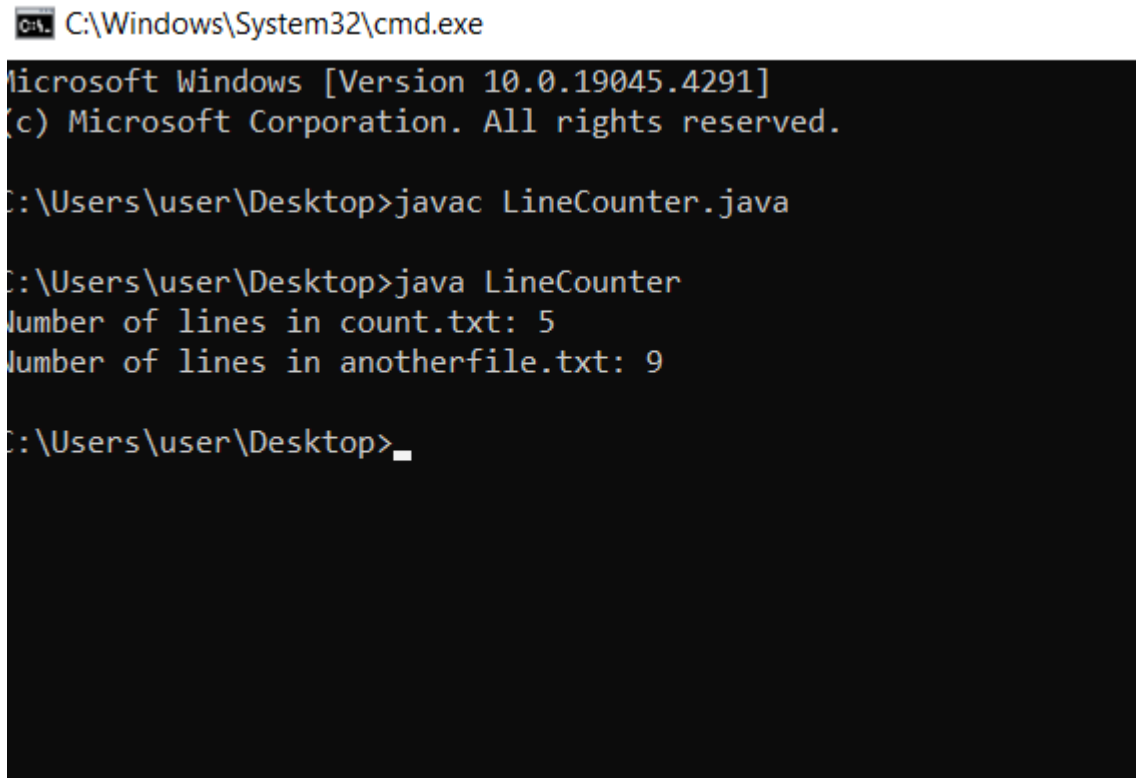
Create a function that takes a filename as an argument and prints the number of lines in the file. Call this function from your script with different filenames.

**Function: -**



```
File  Edit  Selection  View  Go  Run  ...  Search
J LineCounter.java X
C:\Users\user\Desktop> J LineCounter.java
1  import java.io.BufferedReader;
2  import java.io.FileReader;
3  import java.io.IOException;
4
5  public class LineCounter {
6
7      public static void countLines(String filename) {
8          try {
9              BufferedReader reader = new BufferedReader(new FileReader(filename));
10             int lines = 0;
11             while (reader.readLine() != null) lines++;
12             reader.close();
13             System.out.println("Number of lines in " + filename + ": " + lines);
14         } catch (IOException e) {
15             System.err.println("Error reading file: " + e.getMessage());
16         }
17     }
18
19     public static void main(String[] args) {
20         countLines("count.txt"); // Replace "example.txt" with your filename
21         countLines("anotherfile.txt"); // Replace "anotherfile.txt" with another filename
22     }
23 }
24
Ln 19, Col 36  Spaces: 4  UTF-8  CRLF  Java  Go Live
Type here to search  21:50 18-05-2024
```

**Output: -**



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.4291]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user\Desktop>javac LineCounter.java

C:\Users\user\Desktop>java LineCounter
Number of lines in count.txt: 5
Number of lines in anotherfile.txt: 9

C:\Users\user\Desktop>_
```

## Explanation:

### 1.countLinesInFile Function:

- This function takes a filename string as input.
- It throws an IOException to indicate potential exceptions during file operations.
- Inside a try-with-resources block:

- A Scanner object is created to read the file.
- A while loop iterates through each line using `hasNextLine()`.
- Line count (`lineCount`) is incremented for each line.
- The function returns the total line count.

## 2.main Method:

- An array `filename` stores different filenames for testing.
- A for loop iterates through each filename.
- Inside the loop:
  - The `countLinesInFile` function is called with the current filename.
  - The returned line count is stored in the `lineCount` variable.

- An informative message is printed displaying the filename and line count.
- An outer try-catch block handles potential `IOException` thrown by `countLinesInFile`. If an exception occurs, an error message is printed for that specific filename.