COLLEGE OF ARTS AND SCIENCES
SCHOOL OF COMPUTING

STIQK3014
REAL-TIME PROGRAMMING

GROUP A

ASSIGNMENT 1

LECTURER:

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Instruction

You are required to develop a small system using Java programming language. The system should be able to:

1. Count number of java files in your directory/folder.
2. Count number of issues (solved problems) in the directory/folder.

Example of the output is shown below:

Number of Java Files = 8
Number of Issues = 3

Evaluation
The marks will be given based on the:

1. Correctness of the results.
2. The quality of the system.

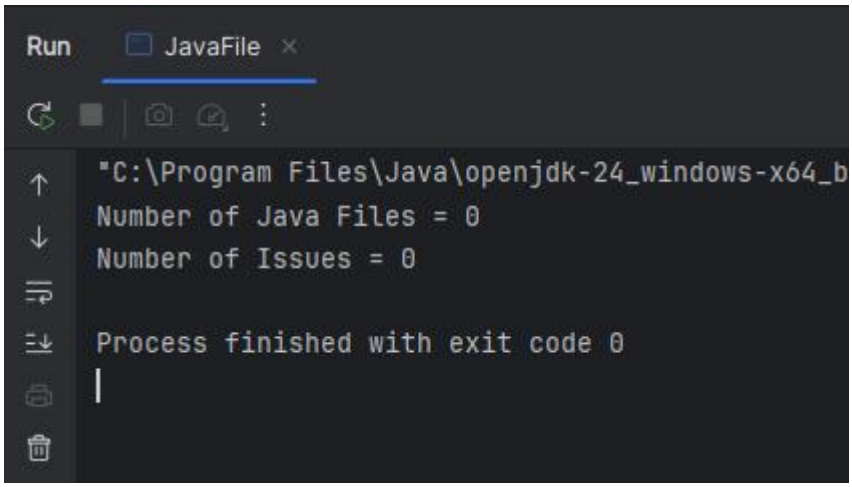
Plagiarism
No mark will be given for plagiarism activities.

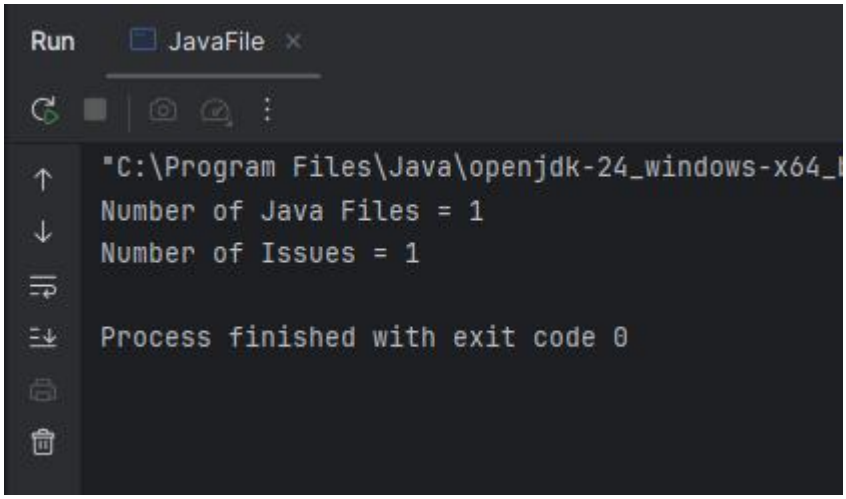
Coding

```
import java.io.File;

public class JavaFile {

   public static void main(String[] args) {
      File directory = new File(".");

      int javaFileCount = countJavaFiles(directory);
      int issueCount = countIssue(directory);

      System.out.println("Number of Java Files = " + javaFileCount);
      System.out.println("Number of Issues = " + issueCount);
   }

   public static int countJavaFiles(File directory) {
      int count = 0;
      for (File file : directory.listFiles()) {
         if (file.getName().endsWith(".java")) {
            count++;
         }
      }
      return count;
   }

   public static int countIssue(File directory) {
      int count = 0;
      for (File file : directory.listFiles()) {
         if (file.getName().endsWith("issue")) {
            count++;
         }
      }
      return count;
   }
}
```


A1 Assignment 1
Version control
pom.xml (Assignment_1)
JavaFile.java
import java.io.File;
public class JavaFile {
public static void main(String[] args) {
File directory = new File(pathname: ".");
int javaFileCount = countJavaFiles(directory);
int issueCount = countIssue(directory);
System.out.println("Number of Java Files = " + javaFileCount);
System.out.println("Number of Issues = " + issueCount);
}
public static int countJavaFiles(File directory) { 1 usage
int count = 0;
for (File file : directory.listFiles()) {
if (file.getName().endsWith(".java")) {
count++;
}
}
return count;
}
public static int countIssue(File directory) { 1 usage
int count = 0;
for (File file : directory.listFiles()) {
if (file.getName().endsWith("issue")) {
count++;
}
}
return count;
}
}

Output


Run
JavaFile
"C:\Program Files\Java\openjdk-24_windows-x64_b
Number of Java Files = 0
Number of Issues = 0
Process finished with exit code 0


Run
JavaFile
"C:\Program Files\Java\openjdk-24_windows-x64_
Number of Java Files = 1
Number of Issues = 1
Process finished with exit code 0