

EXPLORER

JAVA DEVELOPM...

Assingment-1

lib

StudentInfo.class

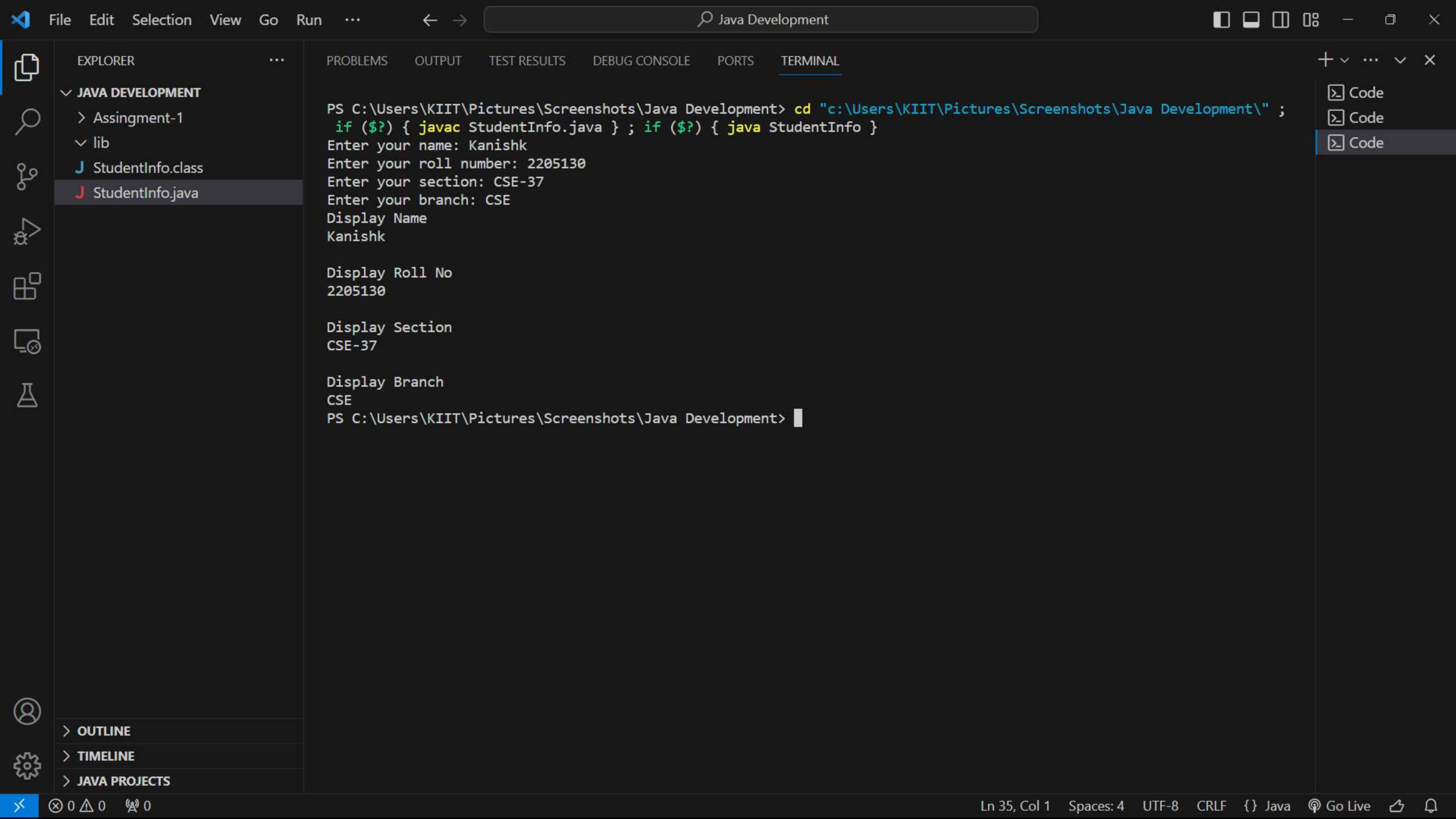
StudentInfo.java

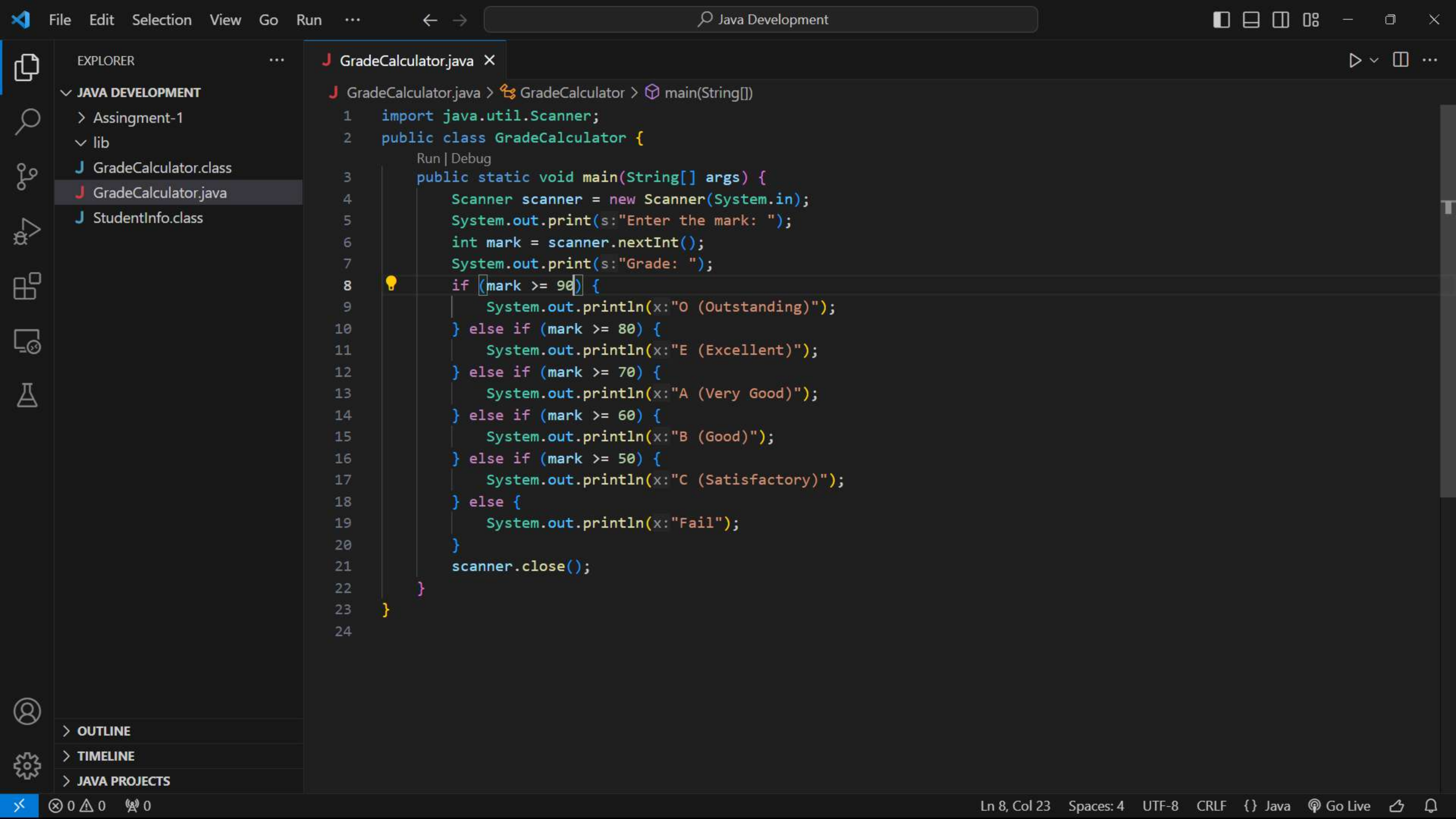
StudentInfo.java

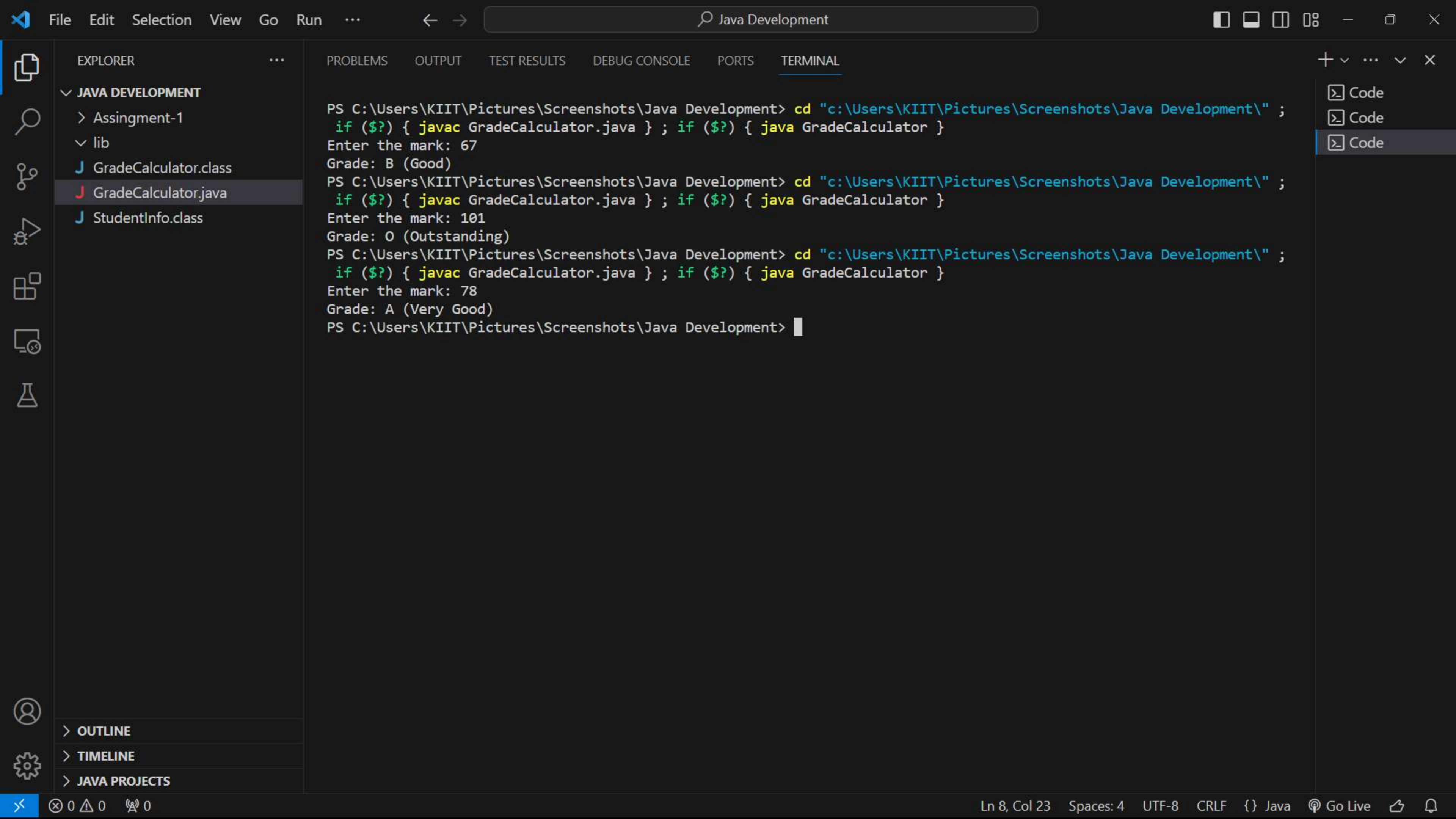
StudentInfo.java > ...

```
1  import java.util.Scanner;
2
3  public class StudentInfo {
4      Run | Debug
5      public static void main(String[] args) {
6
7          Scanner scanner = new Scanner(System.in);
8
9          System.out.print(s:"Enter your name: ");
10         String name = scanner.nextLine();
11
12         System.out.print(s:"Enter your roll number: ");
13         String rollNo = scanner.nextLine();
14
15         System.out.print(s:"Enter your section: ");
16         String section = scanner.nextLine();
17
18         System.out.print(s:"Enter your branch: ");
19         String branch = scanner.nextLine();
20
21         System.out.println(x:"Display Name");
22         System.out.println(name);
23
24         System.out.println(x:"\nDisplay Roll No");
25         System.out.println(rollNo);
26
27         System.out.println(x:"\nDisplay Section");
28         System.out.println(section);
29
30         System.out.println(x:"\nDisplay Branch");
31         System.out.println(branch);
32     }
33 }
```

> OUTLINE
> TIMELINE
> JAVA PROJECTS







```
File Edit Selection View Go Run ... Java Development
```

EXPLORER

- JAVA DEVELOPMENT
 - Assingment-1
 - lib
 - GradeCalculator.class
 - GradeCalculator.java
 - StudentInfo.class

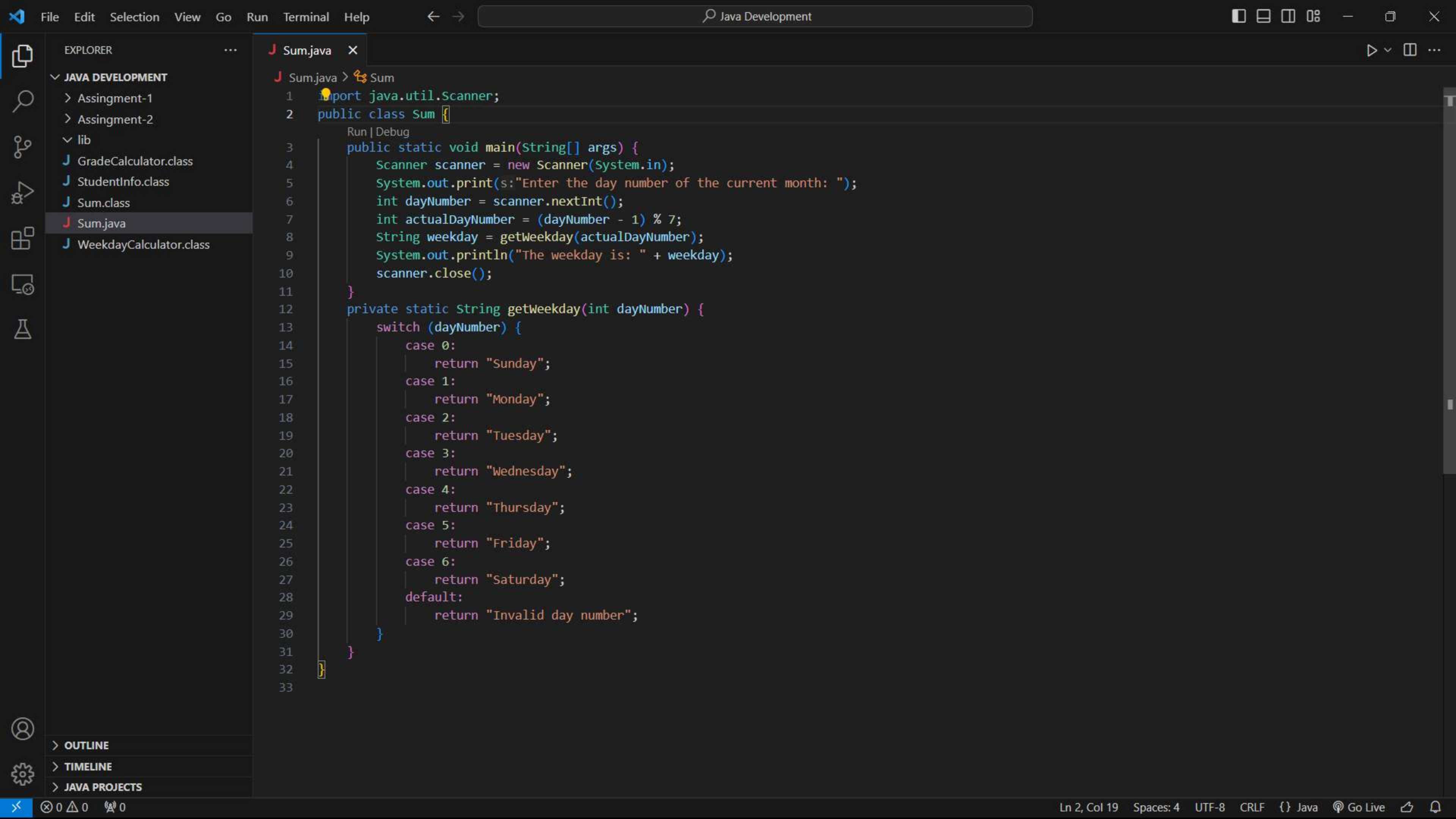
PROBLEMS OUTPUT TEST RESULTS DEBUG CONSOLE PORTS TERMINAL

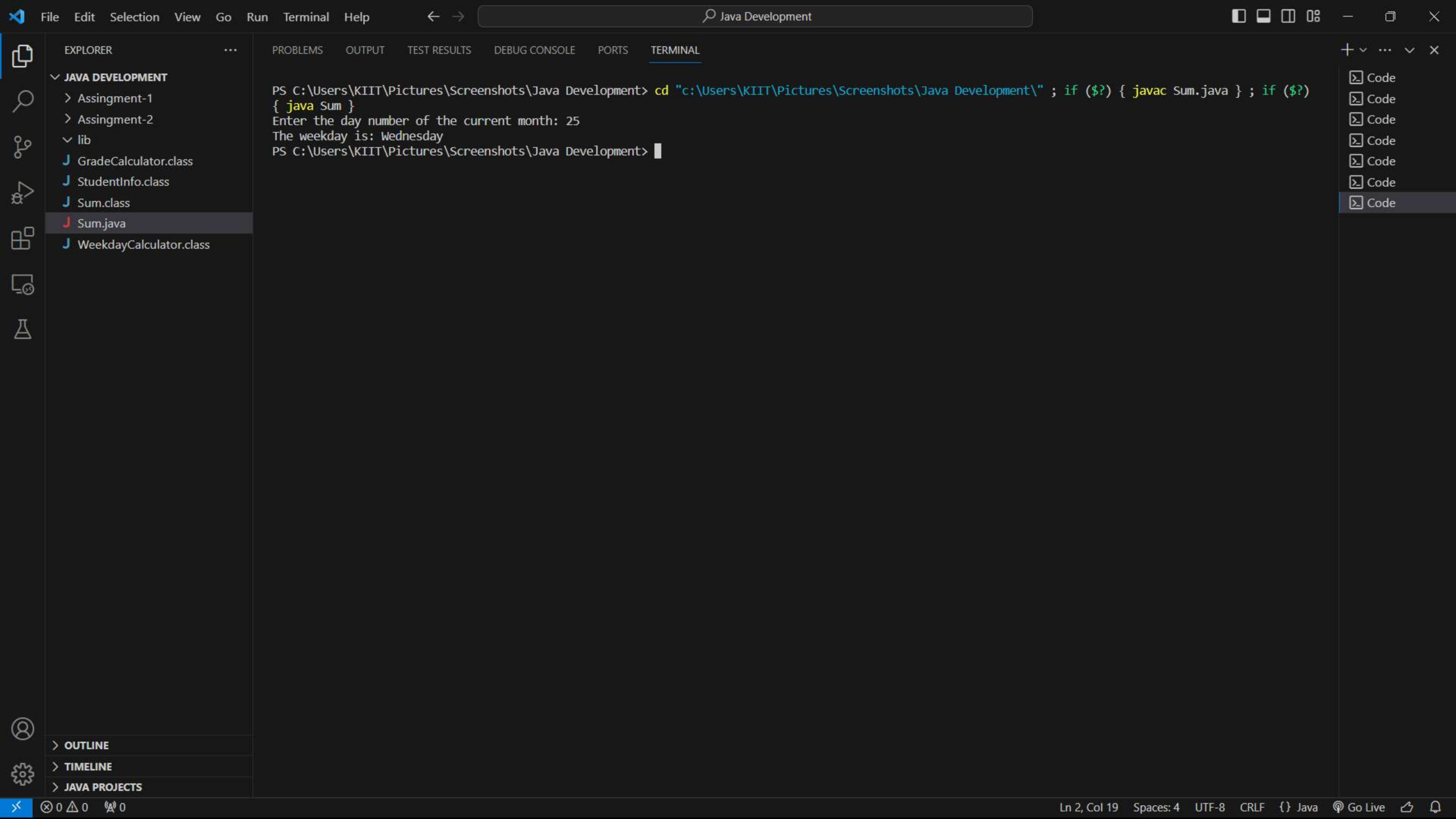
```
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ;  
if ($?) { javac GradeCalculator.java } ; if ($?) { java GradeCalculator }  
Enter the mark: 67  
Grade: B (Good)  
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ;  
if ($?) { javac GradeCalculator.java } ; if ($?) { java GradeCalculator }  
Enter the mark: 101  
Grade: O (Outstanding)  
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ;  
if ($?) { javac GradeCalculator.java } ; if ($?) { java GradeCalculator }  
Enter the mark: 78  
Grade: A (Very Good)  
PS C:\Users\KIIT\Pictures\Screenshots\Java Development>
```

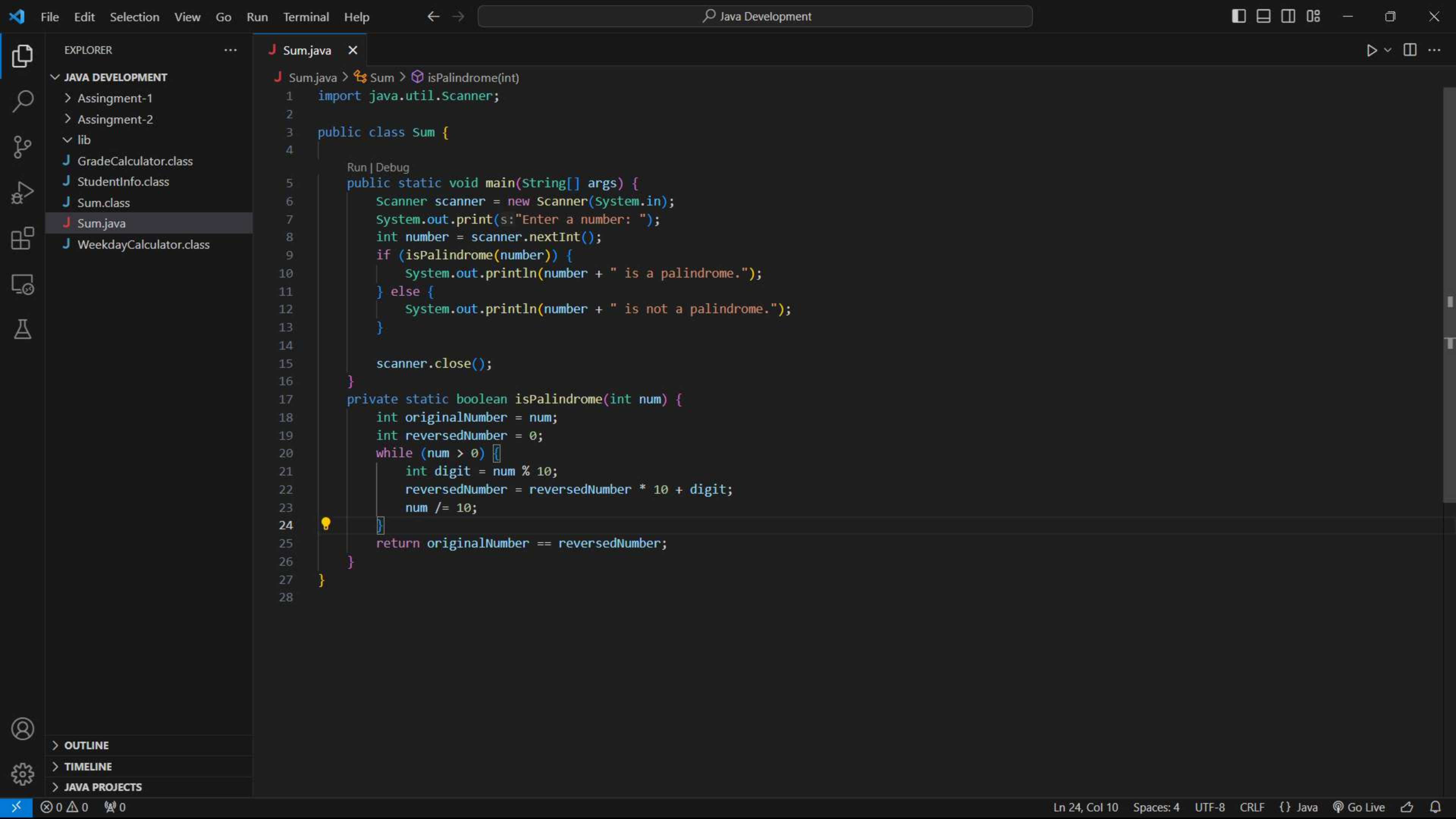
Code Code Code

OUTLINE TIMELINE JAVA PROJECTS

Ln 8, Col 23 Spaces: 4 UTF-8 CRLF {} Java Go Live



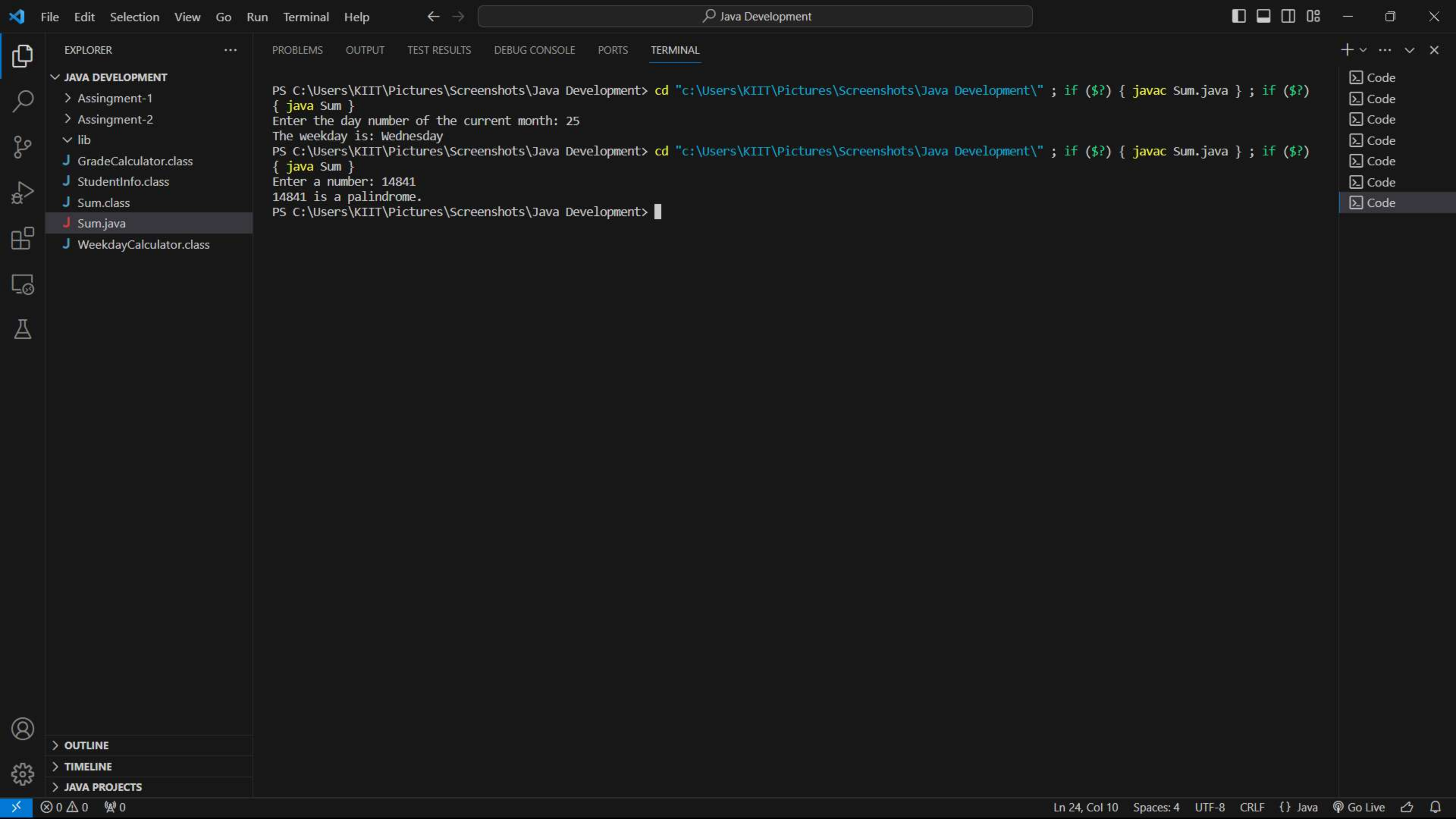




```
File Edit Selection View Go Run Terminal Help
Java Development

EXPLORER
  JAVA DEVELOPMENT
    > Assingment-1
    > Assingment-2
    > lib
      J GradeCalculator.class
      J StudentInfo.class
      J Sum.class
      J Sum.java
      J WeekdayCalculator.class

Sum.java
1  import java.util.Scanner;
2
3  public class Sum {
4
5      Run | Debug
6      public static void main(String[] args) {
7          Scanner scanner = new Scanner(System.in);
8          System.out.print(s:"Enter a number: ");
9          int number = scanner.nextInt();
10         if (isPalindrome(number)) {
11             System.out.println(number + " is a palindrome.");
12         } else {
13             System.out.println(number + " is not a palindrome.");
14         }
15
16         scanner.close();
17     }
18     private static boolean isPalindrome(int num) {
19         int originalNumber = num;
20         int reversedNumber = 0;
21         while (num > 0) {
22             int digit = num % 10;
23             reversedNumber = reversedNumber * 10 + digit;
24             num /= 10;
25         }
26         return originalNumber == reversedNumber;
27     }
28 }
```

EXPLORER

...

JAVA DEVELOPMENT

> Assingment-1

> Assingment-2

lib

J GradeCalculator.class

J StudentInfo.class

J Sum.class

J Sum.java

J WeekdayCalculator.class

PROBLEMS

OUTPUT

TEST RESULTS

DEBUG CONSOLE

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TERMINAL

+ - ... - +

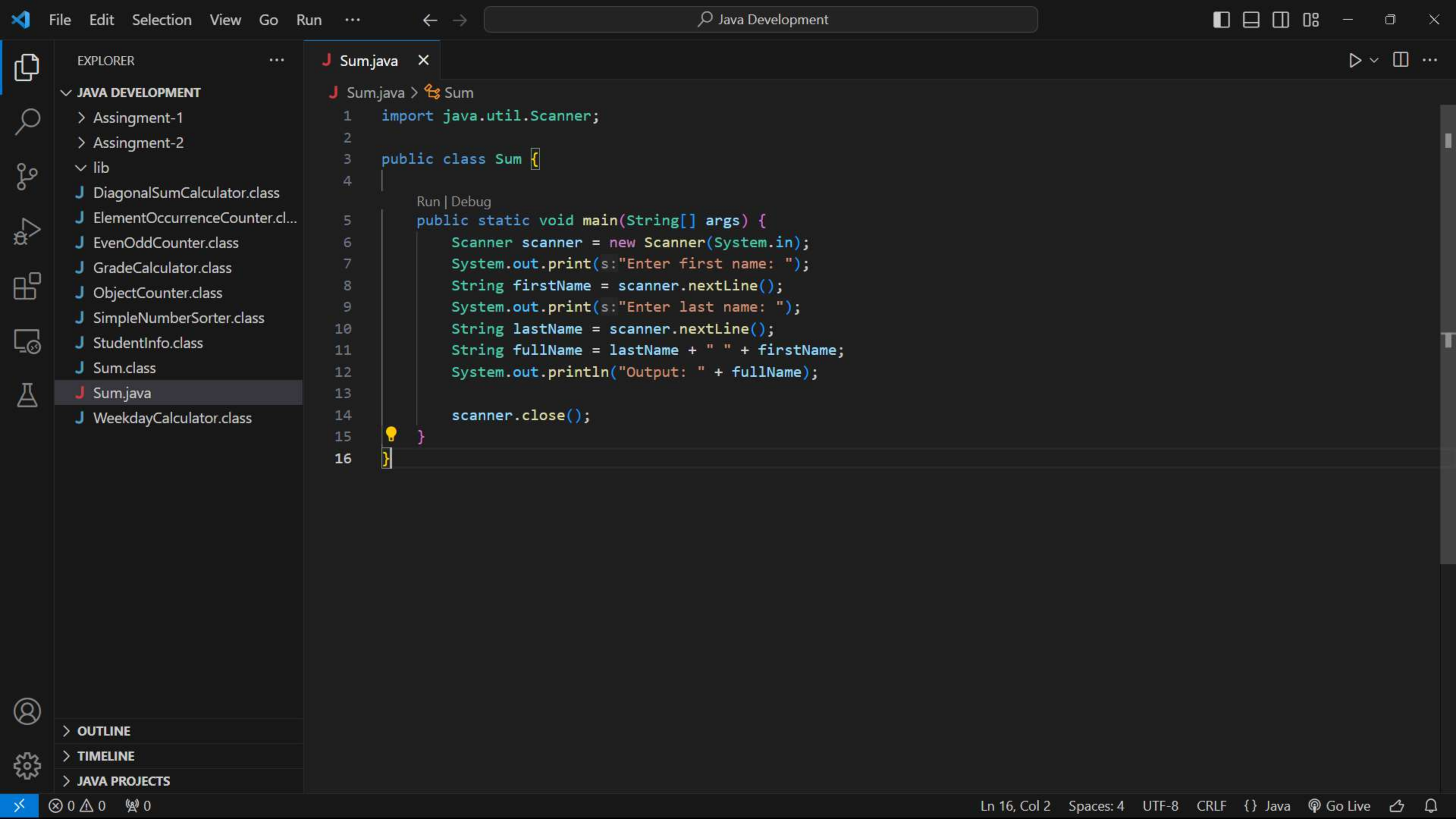
```
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ; if ($?) { javac Sum.java } ; if ($?) { java Sum }
Enter the day number of the current month: 25
The weekday is: Wednesday
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ; if ($?) { javac Sum.java } ; if ($?) { java Sum }
Enter a number: 14841
14841 is a palindrome.
PS C:\Users\KIIT\Pictures\Screenshots\Java Development>
```

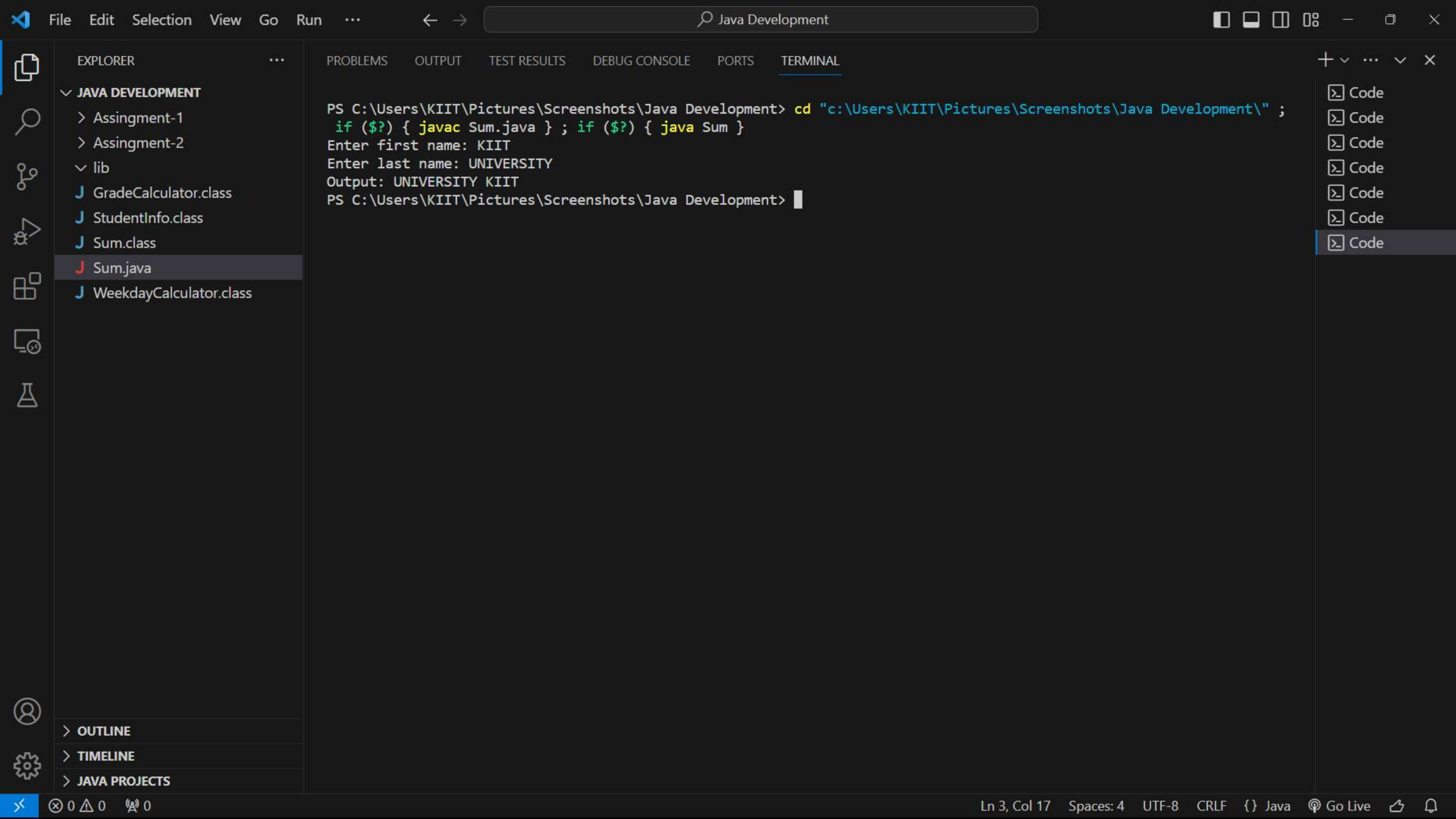
```
Code
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Code
```

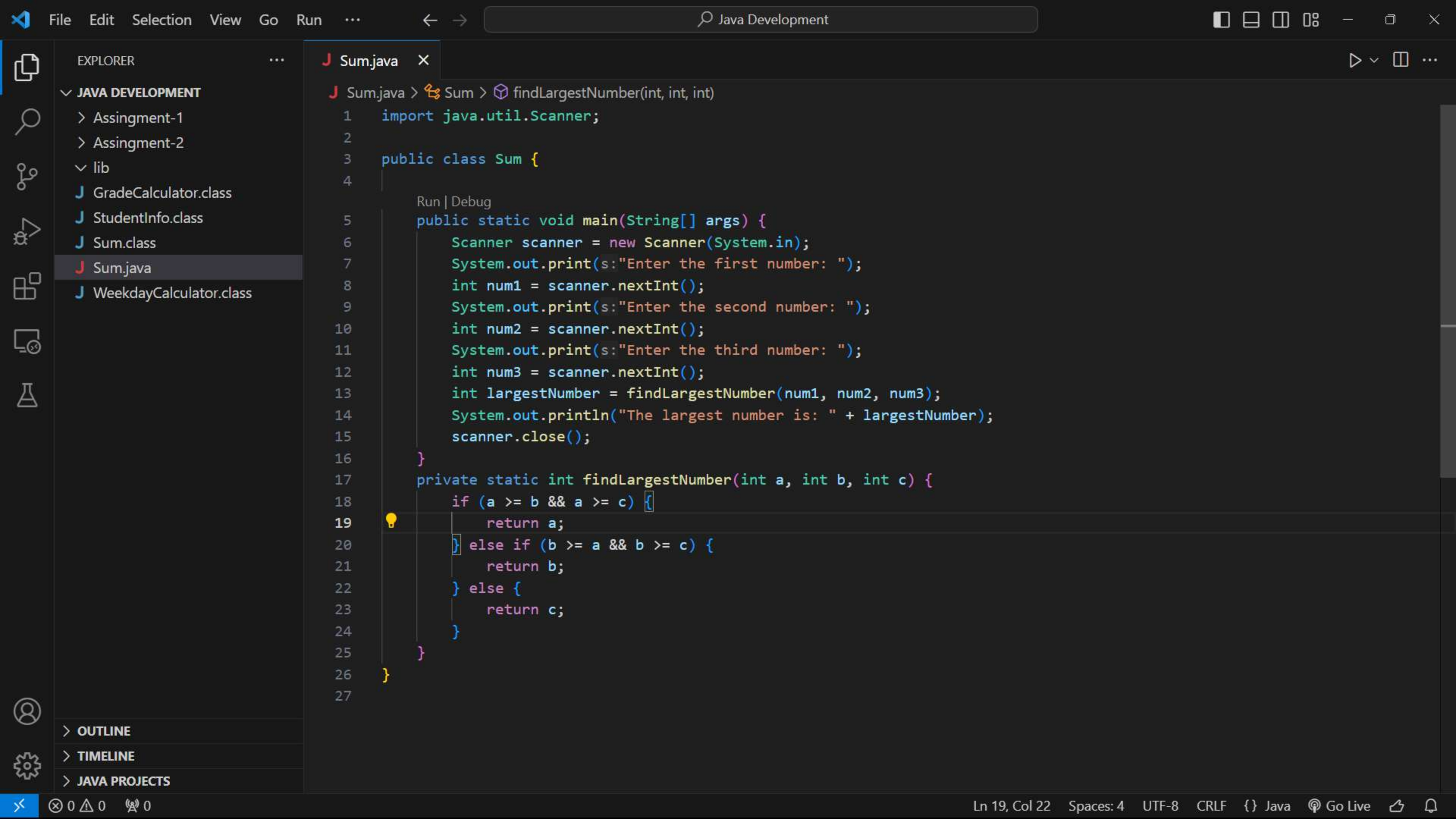
> OUTLINE

> TIMELINE

> JAVA PROJECTS

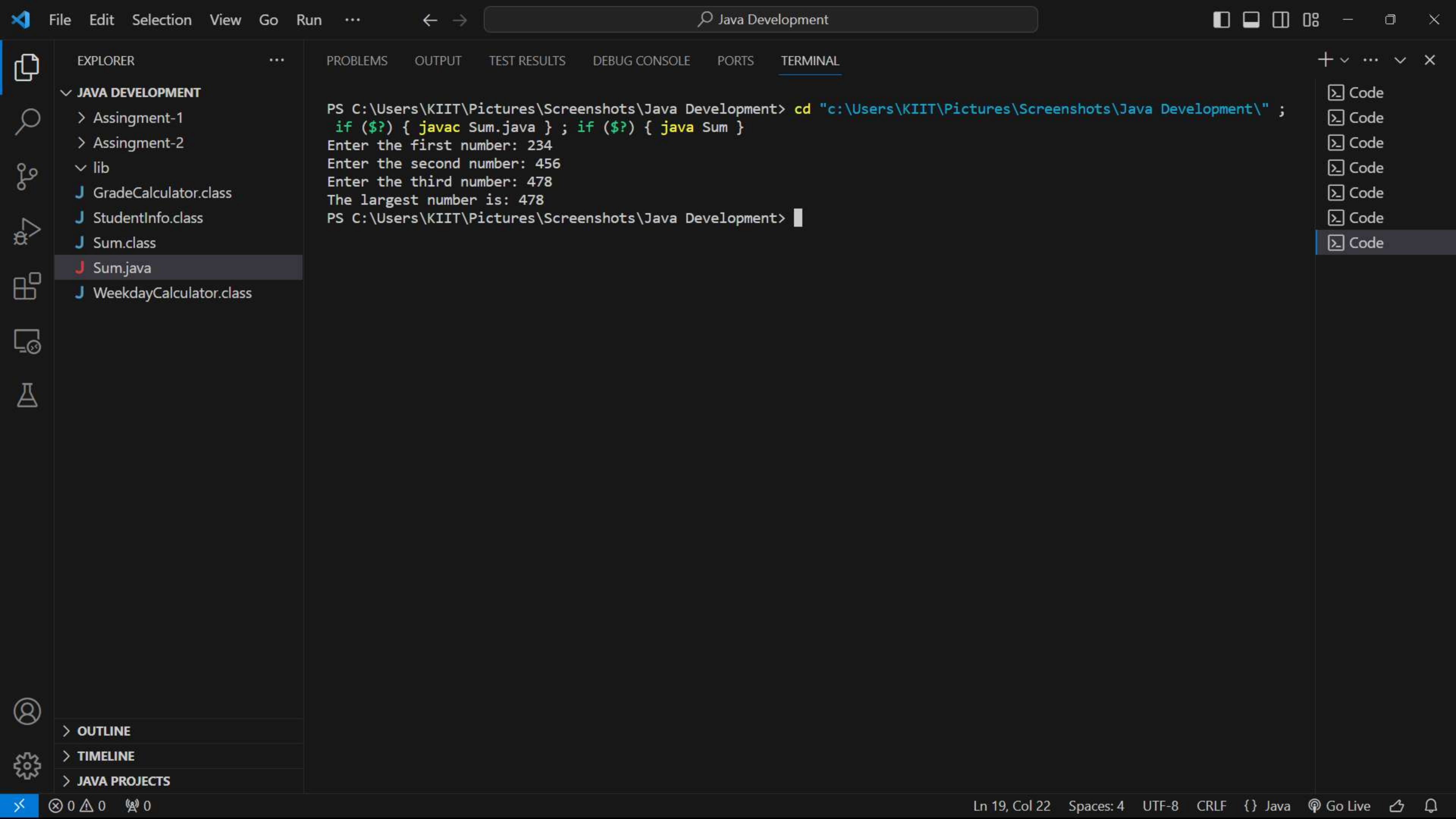


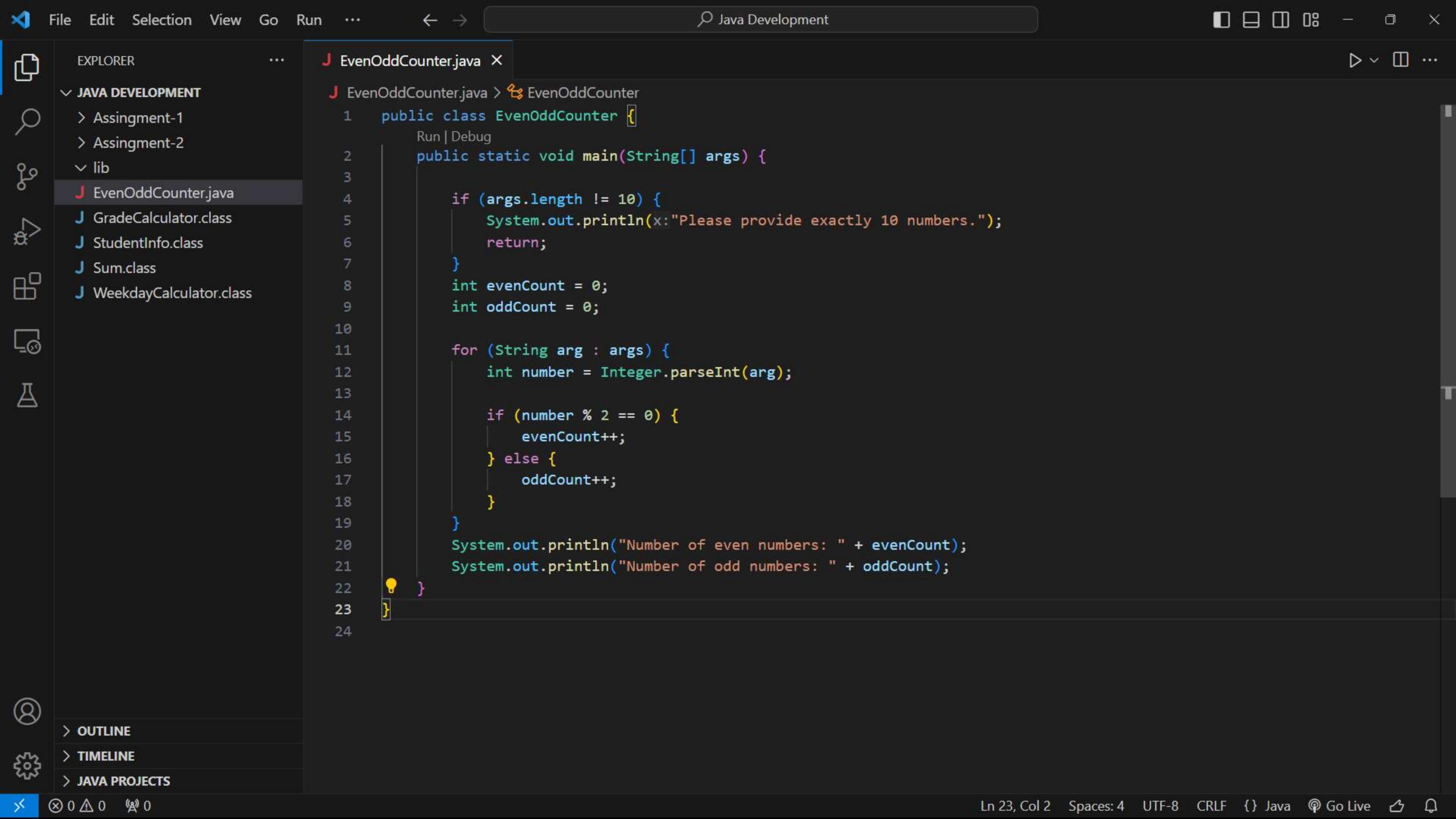


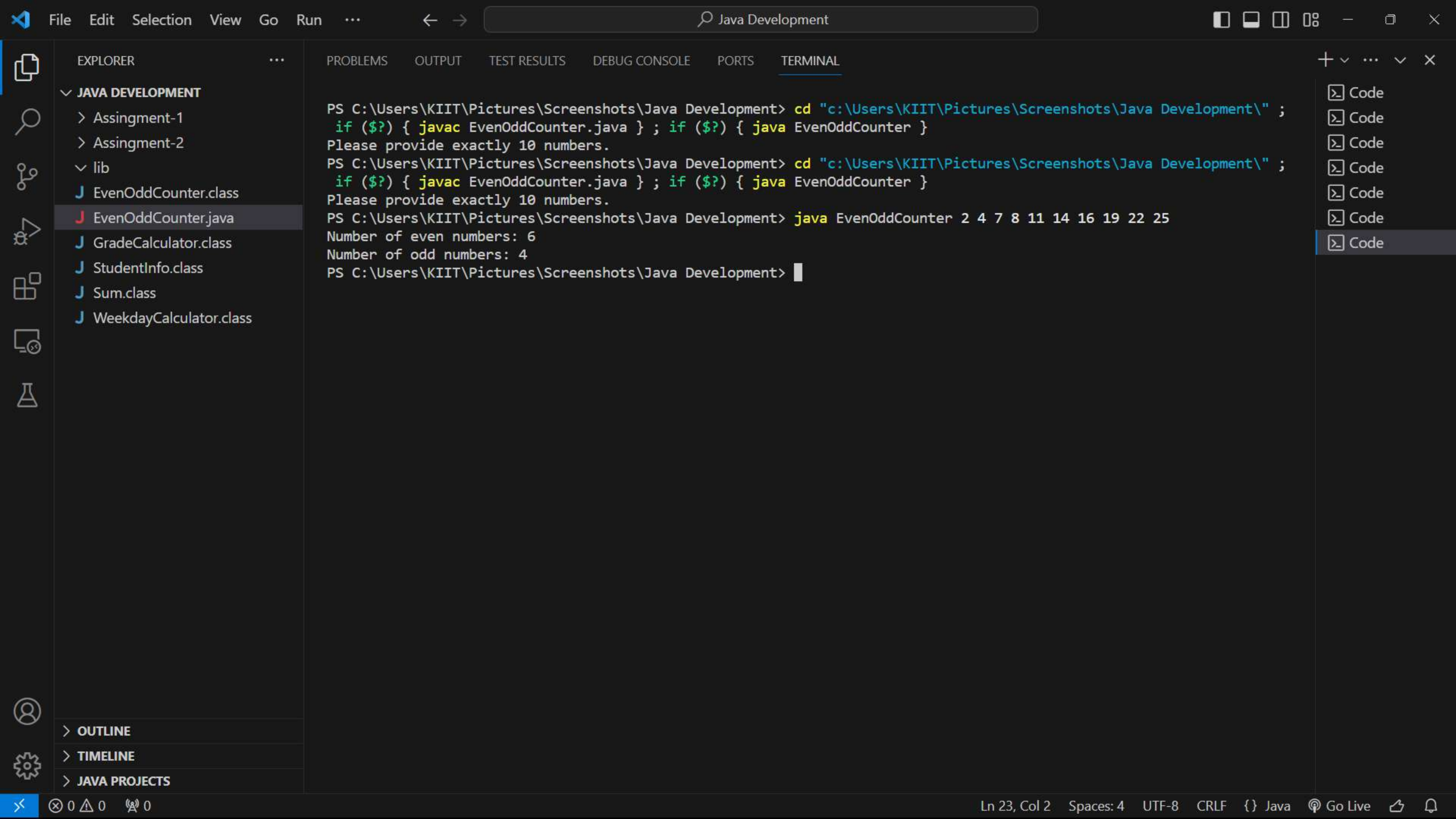


```
File Edit Selection View Go Run ... Java Development
EXPLOLER
  JAVA DEVELOPMENT
    > Assingment-1
    > Assingment-2
    > lib
      J GradeCalculator.class
      J StudentInfo.class
      J Sum.class
      J Sum.java
      J WeekdayCalculator.class
  OUTLINE
  TIMELINE
  JAVA PROJECTS

J Sum.java X
  J Sum.java > Sum > findLargestNumber(int, int, int)
    1 import java.util.Scanner;
    2
    3 public class Sum {
    4
    5     Run | Debug
    6     public static void main(String[] args) {
    7         Scanner scanner = new Scanner(System.in);
    8         System.out.print(s:"Enter the first number: ");
    9         int num1 = scanner.nextInt();
    10        System.out.print(s:"Enter the second number: ");
    11        int num2 = scanner.nextInt();
    12        System.out.print(s:"Enter the third number: ");
    13        int num3 = scanner.nextInt();
    14        int largestNumber = findLargestNumber(num1, num2, num3);
    15        System.out.println("The largest number is: " + largestNumber);
    16        scanner.close();
    17    }
    18    private static int findLargestNumber(int a, int b, int c) {
    19        if (a >= b && a >= c) {
    20            return a;
    21        } else if (b >= a && b >= c) {
    22            return b;
    23        } else {
    24            return c;
    25        }
    26    }
    27
Ln 19, Col 22 Spaces: 4 UTF-8 CRLF {} Java Go Live
```







EXPLORER

JAVA DEVELOPMENT

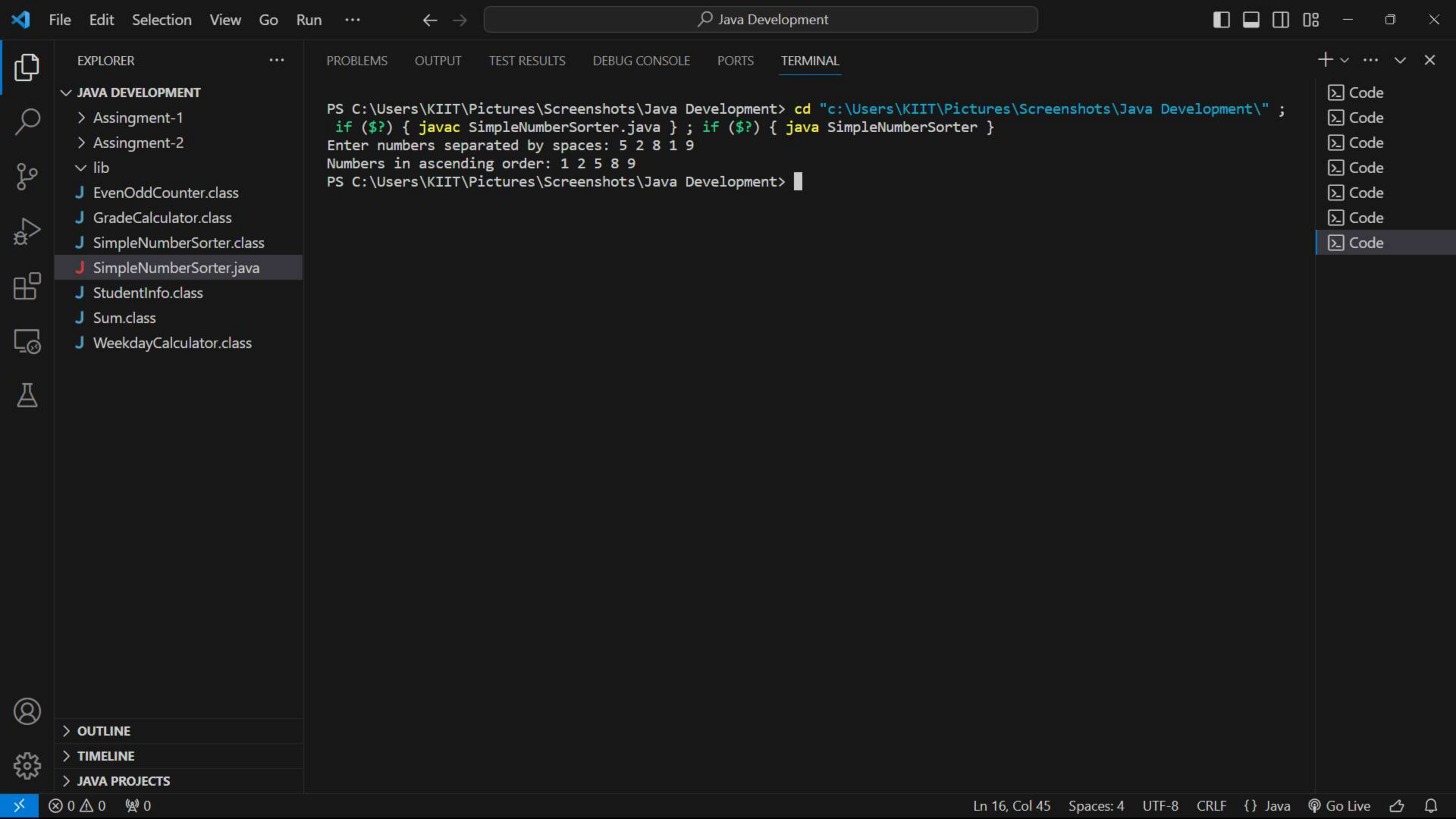
- > Assingment-1
- > Assingment-2
- > lib
 - EvenOddCounter.class
 - EvenOddCounter.java
 - GradeCalculator.class
 - StudentInfo.class
 - Sum.class
 - WeekdayCalculator.class

PROBLEMS OUTPUT TEST RESULTS DEBUG CONSOLE PORTS TERMINAL

```
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ;  
if ($?) { javac EvenOddCounter.java } ; if ($?) { java EvenOddCounter }  
Please provide exactly 10 numbers.  
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ;  
if ($?) { javac EvenOddCounter.java } ; if ($?) { java EvenOddCounter }  
Please provide exactly 10 numbers.  
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> java EvenOddCounter 2 4 7 8 11 14 16 19 22 25  
Number of even numbers: 6  
Number of odd numbers: 4  
PS C:\Users\KIIT\Pictures\Screenshots\Java Development>
```

- > Code
- > Code
- > Code
- > Code
- > Code
- > Code
- > Code

- > OUTLINE
- > TIMELINE
- > JAVA PROJECTS



FileEditSelectionViewGoRun...<=>Java Development

EXPLORER

▼ JAVA DEVELOPMENT

> Assingment-1

> Assingment-2

▼ lib

EvenOddCounter.class

GradeCalculator.class

SimpleNumberSorter.class

SimpleNumberSorter.java

StudentInfo.class

Sum.class

WeekdayCalculator.class

> OUTLINE

> TIMELINE

> JAVA PROJECTS

PROBLEMS

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PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ; if (\$?) { javac SimpleNumberSorter.java } ; if (\$?) { java SimpleNumberSorter } Enter numbers separated by spaces: 5 2 8 1 9 Numbers in ascending order: 1 2 5 8 9 PS C:\Users\KIIT\Pictures\Screenshots\Java Development>

> Code

> Code

> Code

> Code

> Code

> Code

> Code

Ln 16, Col 45

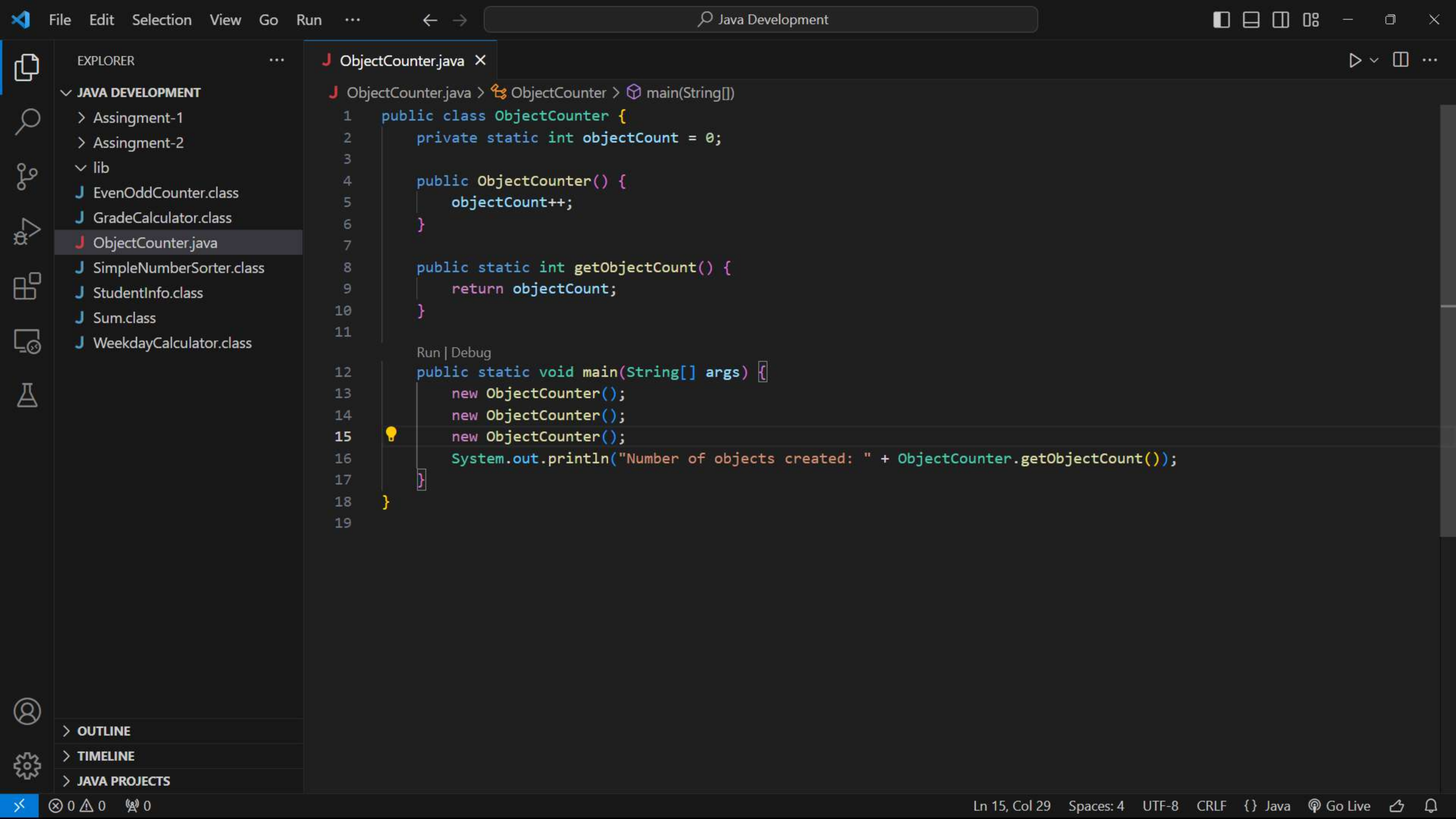
Spaces: 4

UTF-8

CRLF

{ } Java

Go Live



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File Edit Selection View Go Run ... Java Development
```

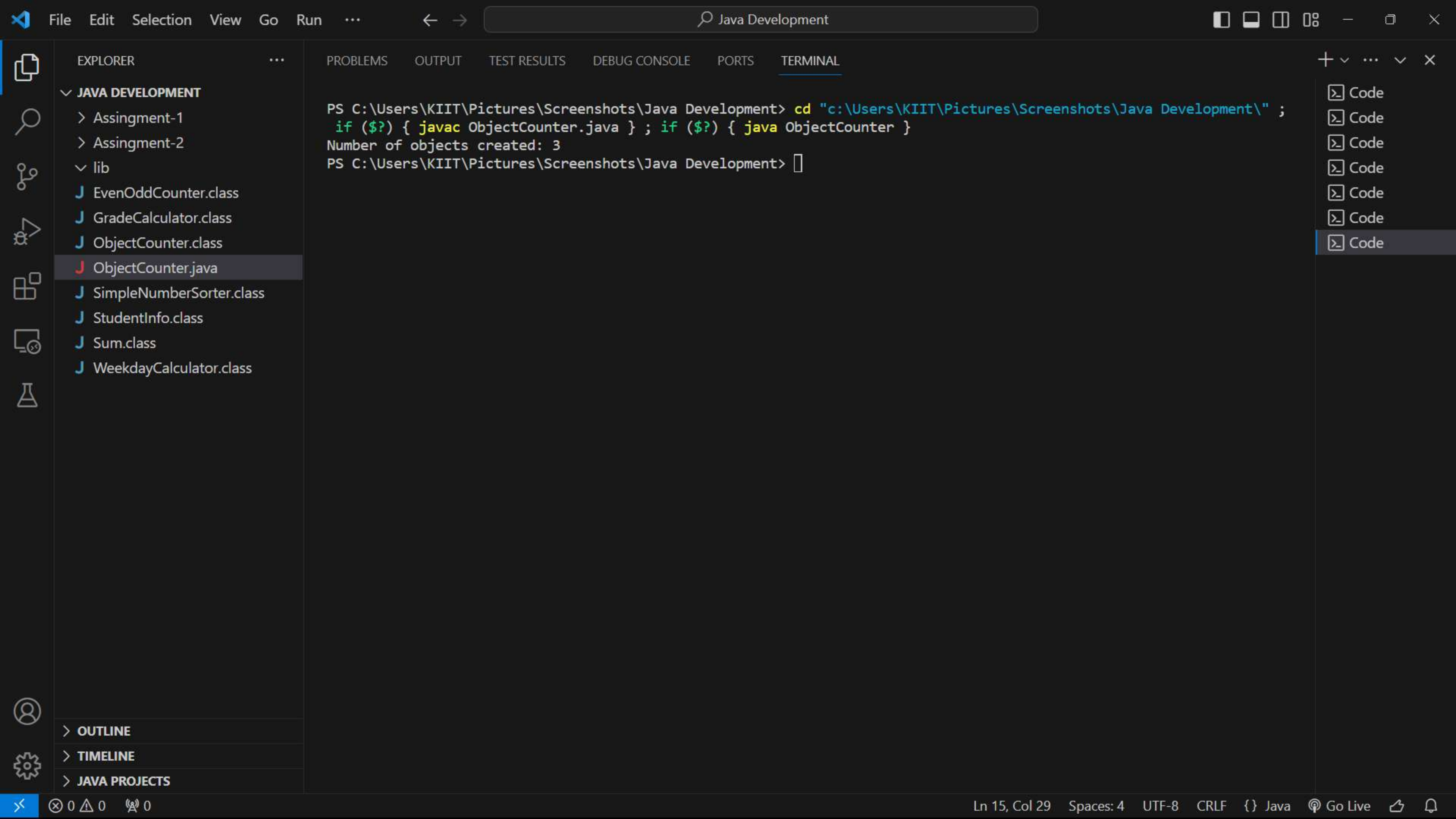
EXPLORER

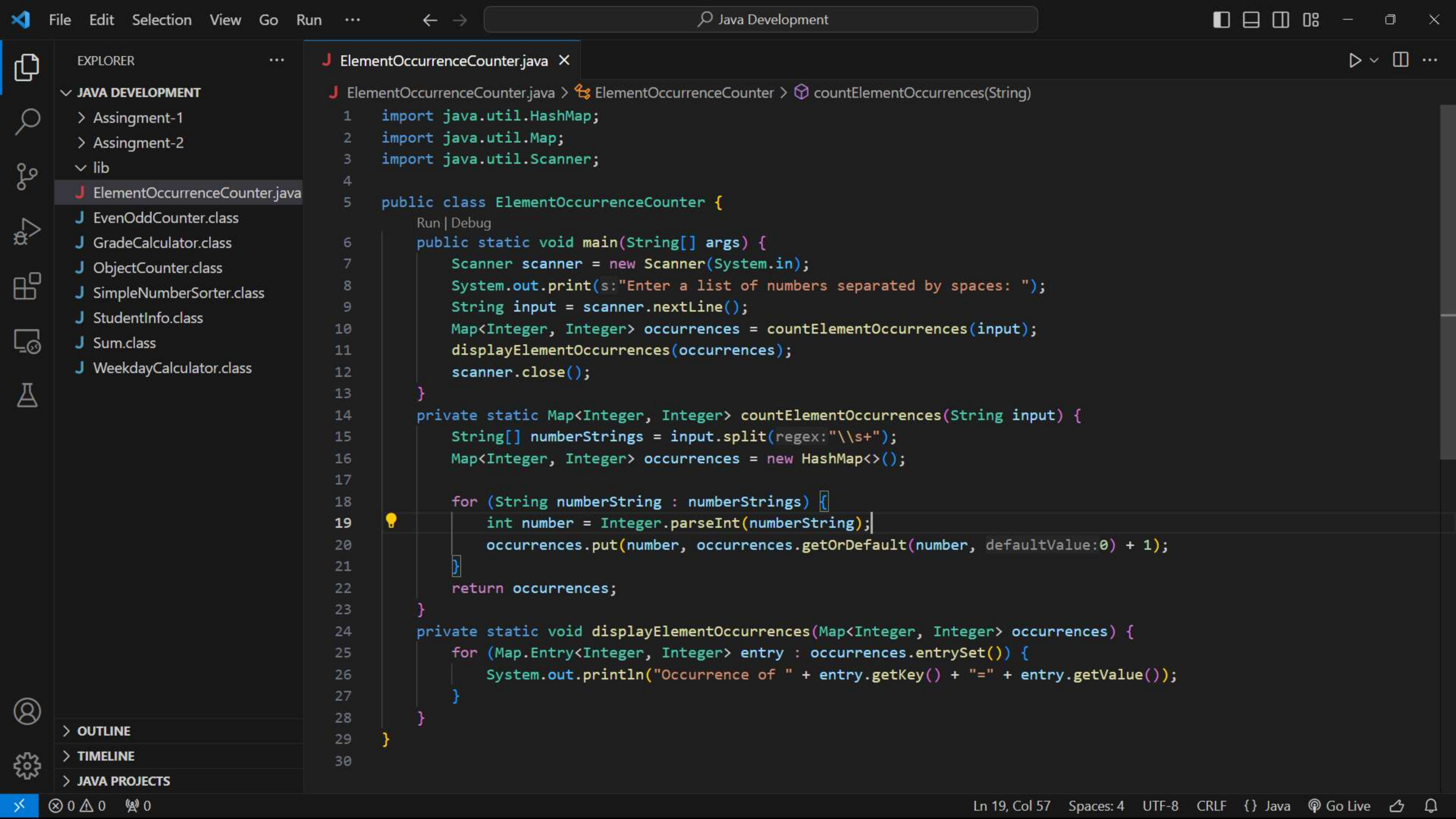
- JAVA DEVELOPMENT
 - > Assingment-1
 - > Assingment-2
 - lib
 - EvenOddCounter.class
 - GradeCalculator.class
 - ObjectCounter.java
 - SimpleNumberSorter.class
 - StudentInfo.class
 - Sum.class
 - WeekdayCalculator.class

ObjectCounter.java

```
ObjectCounter.java > ObjectCounter > main(String[])
1 public class ObjectCounter {
2     private static int objectCount = 0;
3
4     public ObjectCounter() {
5         objectCount++;
6     }
7
8     public static int getObjectCount() {
9         return objectCount;
10    }
11
12    Run | Debug
13    public static void main(String[] args) {
14        new ObjectCounter();
15        new ObjectCounter();
16        System.out.println("Number of objects created: " + ObjectCounter.getObjectCount());
17    }
18 }
19
```

Ln 15, Col 29 Spaces: 4 UTF-8 CRLF {} Java Go Live





EXPLORER

JAVA DEVELOPMENT

- > Assingment-1
- > Assingment-2
- lib
 - ElementOccurrenceCounter.java
- EvenOddCounter.class
- GradeCalculator.class
- ObjectCounter.class
- SimpleNumberSorter.class
- StudentInfo.class
- Sum.class
- WeekdayCalculator.class

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ElementOccurrenceCounter.java

ElementOccurrenceCounter.java > ElementOccurrenceCounter > countElementOccurrences(String)

```
1 import java.util.HashMap;
2 import java.util.Map;
3 import java.util.Scanner;
4
5 public class ElementOccurrenceCounter {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8         System.out.print("Enter a list of numbers separated by spaces: ");
9         String input = scanner.nextLine();
10        Map<Integer, Integer> occurrences = countElementOccurrences(input);
11        displayElementOccurrences(occurrences);
12        scanner.close();
13    }
14    private static Map<Integer, Integer> countElementOccurrences(String input) {
15        String[] numberStrings = input.split(regex:"\\s+");
16        Map<Integer, Integer> occurrences = new HashMap<>();
17
18        for (String numberString : numberStrings) {
19            int number = Integer.parseInt(numberString);
20            occurrences.put(number, occurrences.getOrDefault(number, defaultValue:0) + 1);
21        }
22        return occurrences;
23    }
24    private static void displayElementOccurrences(Map<Integer, Integer> occurrences) {
25        for (Map.Entry<Integer, Integer> entry : occurrences.entrySet()) {
26            System.out.println("Occurrence of " + entry.getKey() + "=" + entry.getValue());
27        }
28    }
29 }
30
```


The screenshot displays the Visual Studio Code IDE interface. The Explorer panel on the left shows a project structure under 'JAVA DEVELOPMENT' with folders 'Assingment-1' and 'Assingment-2', and a 'lib' folder containing several Java files. The file 'ElementOccurrenceCounter.java' is selected. The Terminal panel in the center shows a PowerShell session where the user has navigated to the project directory and executed a command to compile and run the 'ElementOccurrenceCounter.java' file. The output shows the occurrence counts for the numbers 15, 25, 11, and 32. The Outline panel on the right is currently empty.

EXPLORER

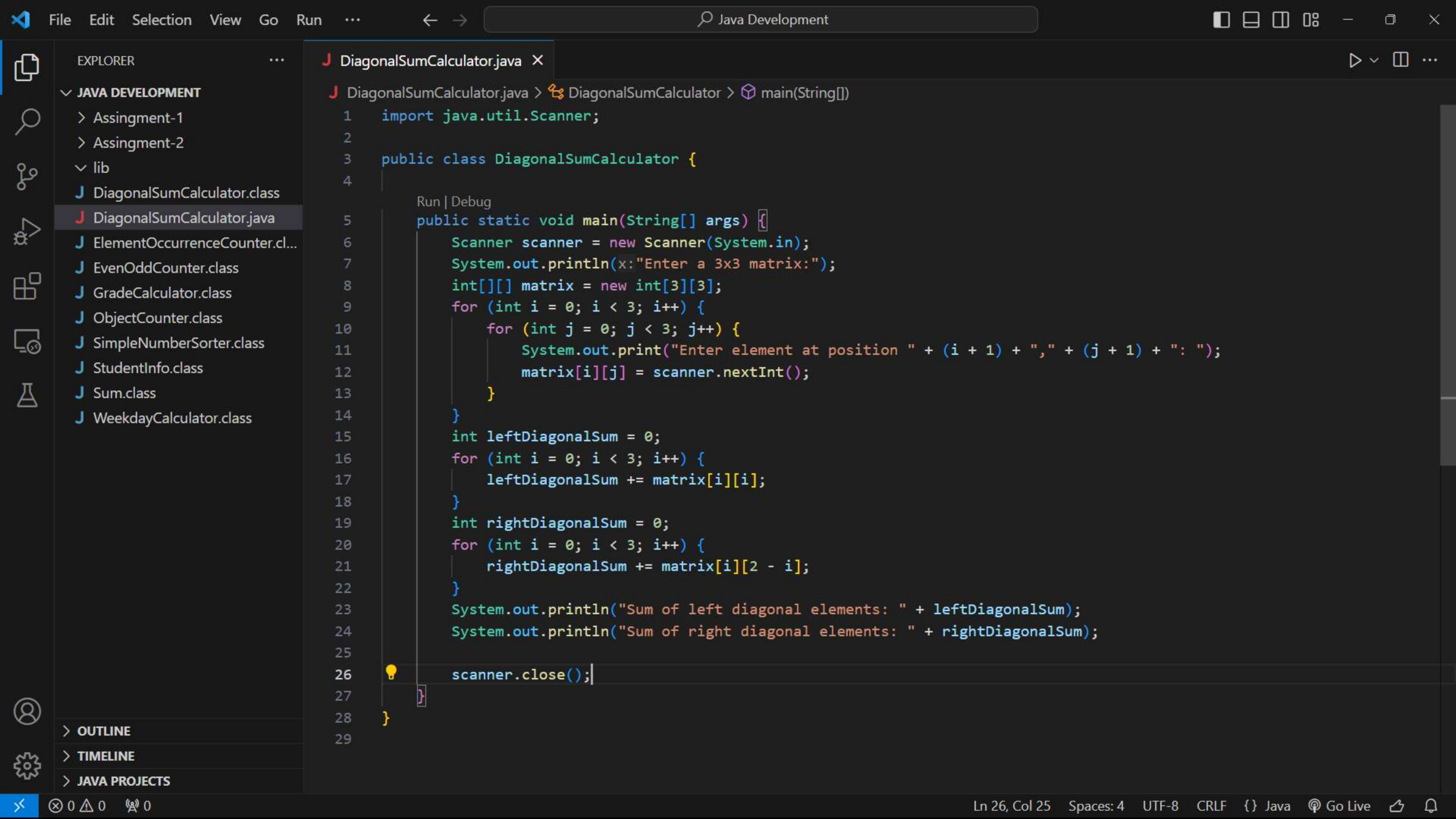
- ▼ **JAVA DEVELOPMENT**
 - > Assingment-1
 - > Assingment-2
 - ▼ lib
 - ElementOccurrenceCounter.cl...
 - ElementOccurrenceCounter.java**
 - EvenOddCounter.class
 - GradeCalculator.class
 - ObjectCounter.class
 - SimpleNumberSorter.class
 - StudentInfo.class
 - Sum.class
 - WeekdayCalculator.class

TERMINAL

```
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ;  
if ($?) { javac ElementOccurrenceCounter.java } ; if ($?) { java ElementOccurrenceCounter }  
Enter a list of numbers separated by spaces: 15 25 15 11 25 32 15 32  
Occurrence of 32=2  
Occurrence of 25=2  
Occurrence of 11=1  
Occurrence of 15=3  
PS C:\Users\KIIT\Pictures\Screenshots\Java Development>
```

OUTLINE

- > **OUTLINE**
- > **TIMELINE**
- > **JAVA PROJECTS**



```
File Edit Selection View Go Run ... Java Development
```

EXPLORER

JAVA DEVELOPMENT

> Assingment-1

> Assingment-2

lib

DiagonalSumCalculator.class

DiagonalSumCalculator.java

ElementOccurrenceCounter.cl...

EvenOddCounter.class

GradeCalculator.class

ObjectCounter.class

SimpleNumberSorter.class

StudentInfo.class

Sum.class

WeekdayCalculator.class

OUTLINE

TIMELINE

JAVA PROJECTS

DiagonalSumCalculator.java

DiagonalSumCalculator.java > DiagonalSumCalculator > main(String[])

```
1 import java.util.Scanner;
2
3 public class DiagonalSumCalculator {
4
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7         System.out.println("Enter a 3x3 matrix:");
8         int[][] matrix = new int[3][3];
9         for (int i = 0; i < 3; i++) {
10             for (int j = 0; j < 3; j++) {
11                 System.out.print("Enter element at position " + (i + 1) + "," + (j + 1) + ": ");
12                 matrix[i][j] = scanner.nextInt();
13             }
14         }
15         int leftDiagonalSum = 0;
16         for (int i = 0; i < 3; i++) {
17             leftDiagonalSum += matrix[i][i];
18         }
19         int rightDiagonalSum = 0;
20         for (int i = 0; i < 3; i++) {
21             rightDiagonalSum += matrix[i][2 - i];
22         }
23         System.out.println("Sum of left diagonal elements: " + leftDiagonalSum);
24         System.out.println("Sum of right diagonal elements: " + rightDiagonalSum);
25
26         scanner.close();
27     }
28 }
29
```

Ln 26, Col 25 Spaces: 4 UTF-8 CRLF {} Java Go Live

The image is a screenshot of the Visual Studio Code IDE interface. The Explorer view on the left shows a project named 'JAVA DEVELOPMENT' with a folder 'lib' containing several Java files. 'DiagonalSumCalculator.java' is selected. The Terminal view in the center shows the execution of a Java program, with prompts for a 3x3 matrix and the resulting sums of the left and right diagonals. The Outline view on the right shows the structure of the selected file, 'DiagonalSumCalculator.java', with methods like 'main', 'sumOfLeftDiagonal', and 'sumOfRightDiagonal' listed. The bottom status bar shows the file is 'DiagonalSumCalculator.java' and is 'Unsaved'.