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ITEC 4261

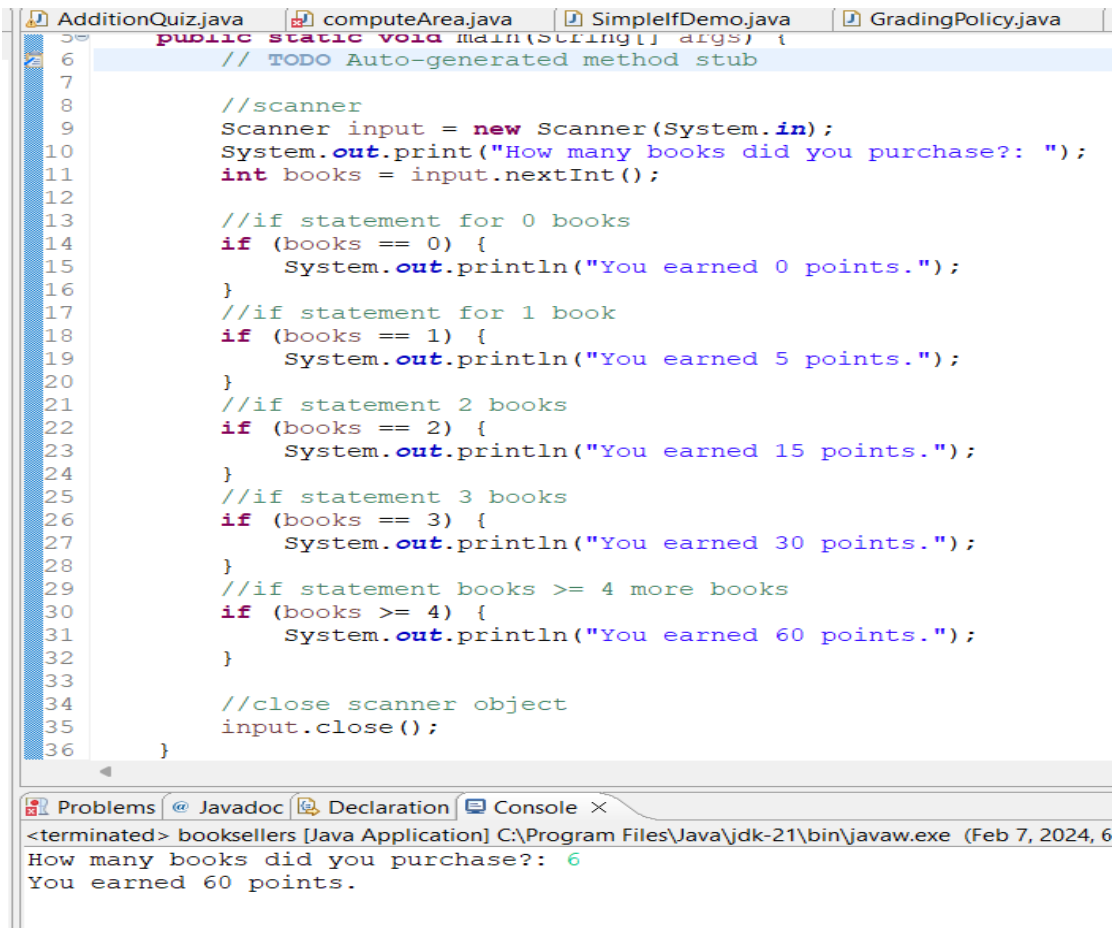
Dr. Kim

2/8/2024

## Assignment 2

- 1) Serendipity Booksellers has a book club that awards points to its customers based on the number of books purchased each month. The points are awarded as follows:
  - If a customer purchases 0 books, he or she earns 0 points.
  - If a customer purchases 1 book, he or she earns 5 points.
  - If a customer purchases 2 books, he or she earns 15 points
  - If a customer purchases 3 books, he or she earns 30 points.
  - If a customer purchases 4 or more books, he or she earns 60 points.

Write a program that asks the user to enter the number of books that he or she has purchased this month and then displays the number of points awarded.



```

AdditionQuiz.java | computeArea.java | SimpleIfDemo.java | GradingPolicy.java
public static void main(String[] args) {
    // TODO Auto-generated method stub

    //scanner
    Scanner input = new Scanner(System.in);
    System.out.print("How many books did you purchase?: ");
    int books = input.nextInt();

    //if statement for 0 books
    if (books == 0) {
        System.out.println("You earned 0 points.");
    }
    //if statement for 1 book
    if (books == 1) {
        System.out.println("You earned 5 points.");
    }
    //if statement 2 books
    if (books == 2) {
        System.out.println("You earned 15 points.");
    }
    //if statement 3 books
    if (books == 3) {
        System.out.println("You earned 30 points.");
    }
    //if statement books >= 4 more books
    if (books >= 4) {
        System.out.println("You earned 60 points.");
    }

    //close scanner object
    input.close();
}

Problems | @ Javadoc | Declaration | Console x
<terminated> booksellers [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (Feb 7, 2024, 6
How many books did you purchase?: 6
You earned 60 points.
```



- 2) Write a program that asks the user to enter a series of numbers separated by commas. Here is an example of valid input: 7, 9, 10, 2, 18, 6 The program should calculate and display the sum of all the numbers.

```
1 import java.util.Scanner;
2 public class commas {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6
7         //initialize and declare sum variable
8         int sum = 0;
9
10        //create scanner
11        Scanner scanner = new Scanner(System.in);
12        System.out.print("Enter numbers separated by commas: ");
13        String input = scanner.nextLine();
14
15        //Split the string with commas
16        String[] numbers = input.split(",");
17
18
19        //parse numbers and add to sum
20        for (String number : numbers) {
21            sum += Integer.parseInt(number.trim());
22        }
23
24        //print sum results
25        System.out.println("The sum of the numbers is: " + sum);
26
27        //close scanner
28        scanner.close();
29    }
30
31
32 }
33
```

Problems @ Javadoc Declaration Console ×

<terminated> commas [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (Feb 8, 2024, 12:08)

Enter numbers separated by commas: 5,5,6

The sum of the numbers is: 16