Jade Pearl

Example 1: Book Club Points

1. Source Code:

```
☑ BookClubPoints1.java 
☒ ☑ BookClubPoints2.java
  1 import java.util.Scanner;
  3 public class BookClubPoints1 {
  5⊜
        public static void main(String[] args) {
  6
             // TODO Auto-generated method stub
  7
             Scanner keyboard = new Scanner (System.in);
             System.out.println("How many books have you purchased this month?");
  9
             int book = keyboard.nextInt();
 10
             keyboard.close();
 11
 12
             if (book == 0) {
 13
                 System.out.println("Sorry, you have earned 0 points");
 14
 15
             else if (book == 1) {
                 System.out.println("You have earned 5 points.");
 16
 17
 18
             else if (book == 2) {
 19
                 System.out.println("You have earned 15 points");
 20
 21
             else if (book == 3) {
                 System.out.println("You have earned 30 points");
 22
 23
 24
             else if (book >= 4) {
 25
                 System.out.println("You have earned 60 points");
 26
             }
             else {
 27
 28
                 System.out.println("Invalid number. please try again.");
 29
 30
        }
 31 }
32
```

2. Output:

```
Problems @ Javadoc Declaration □ Console 
<terminated > BookClubPoints1 [Java Application] C:\Users\jpm
How many books have you purchased this month?

20
You have earned 60 points
```

Example 2: Book Club Points Part 2

1. Source Code:

```
☑ BookClubPoints2.java 
☒

  3 public class BookClubPoints2 {
 4
 5⊚
        public static void main(String[] args) {
 6
            // TODO Auto-generated method stub
 7
            Scanner keyboard = new Scanner (System.in);
 8
            System.out.print("How many books did you buy this month?: ");
 9
            int book = keyboard.nextInt();
10
            keyboard.close();
11
            if (book < 0) {
                 System.out.print("Invalid number");
12
13
            else {
14
15
                 switch(book) {
16
                     case 0:
17
                         System.out.println("You get 0 points");
18
                     break;
19
20
                         System.out.println("You get 5 points");
21
                         break;
22
                     case 2:
23
                         System.out.println("You get 15 points");
24
                         break;
25
                     case 3:
26
                         System.out.println("You get 30 points");
27
28
                     case 4:
29
                         System.out.println("You get 60 points");
30
31
                     default:
32
                         System.out.println("You get 60 points");
33
                         break;
34
35
            }
36
        }
37 }
```

2. Output:

```
Problems @ Javadoc ᠍ Declaration □ Console ⋈ <terminated > BookClubPoints2 [Java Application] C:\Users How many books did you buy this month?: 30 You get 60 points
```

Example 3: Sum of Numbers

1. Source Code:

```
☑ SumOfNumbers.java 
☒

  1 import java.util.Scanner;
  2
  3 public class SumOfNumbers {
  4
  5⊝
         public static void main(String[] args) {
             // TODO Auto-generated method stub
  6
             Scanner keyboard = new Scanner (System.in);
  7
             System.out.println("Input a positive integer");
  8
  9
             int n = keyboard.nextInt();
             int num = 1, sum = 0;
 10
 11
             while (n < 0) {
                 System.out.println("Invalid number. Try again.");
 12
 13
                  n = keyboard.nextInt();
 14
             while (num <= n) {
 15
 16
                  sum = sum + num;
 17
                  num++;
 18
 19
             keyboard.close();
             System.out.print(sum);
 20
 21
         }
 22 }
  2. Output:

    Problems @ Javadoc    Declaration    □ Console    □

<terminated > SumOfNumbers [Java Application] C:\Users\
Input a positive integer
Invalid number. Try again.
5
15
```

Example 4: Draw a Rectangle Using "*"

1. Source Code:

```
☑ DrawingRectangle.java \( \times \)
 1 import java.util.Scanner;
 2
 3 public class DrawingRectangle {
 5⊜
        public static void main(String[] args) {
 6
            // TODO Auto-generated method stub
 7
            Scanner keyboard = new Scanner (System.in);
            System.out.println("Enter the height of the rectangle, then enter the width.");
 9
            int h = keyboard.nextInt();
10
            int w = keyboard.nextInt();
11
            int row, col;
12
            while (h < 0 \&\& w < 0)  {
13
                System.out.println("Invalid height and/or width. Please try again.");
14
                w = keyboard.nextInt();
15
                h = keyboard.nextInt();
16
17
            for (col = 1; col <= h; col++) {
18
                System.out.println();
19
                for (row = 1; row <= w ; row++) {
20
                    System.out.print("*");
21
22
23
        }
24 }
```

2. Output:

```
Problems @ Javadoc Declaration ☐ Console ☐ Console ☐ Cerminated > DrawingRectangle [Java Application] C:\Users\jpmd1\Desktop'

Enter the height of the rectangle, then enter the width.

4

****

****

****
```