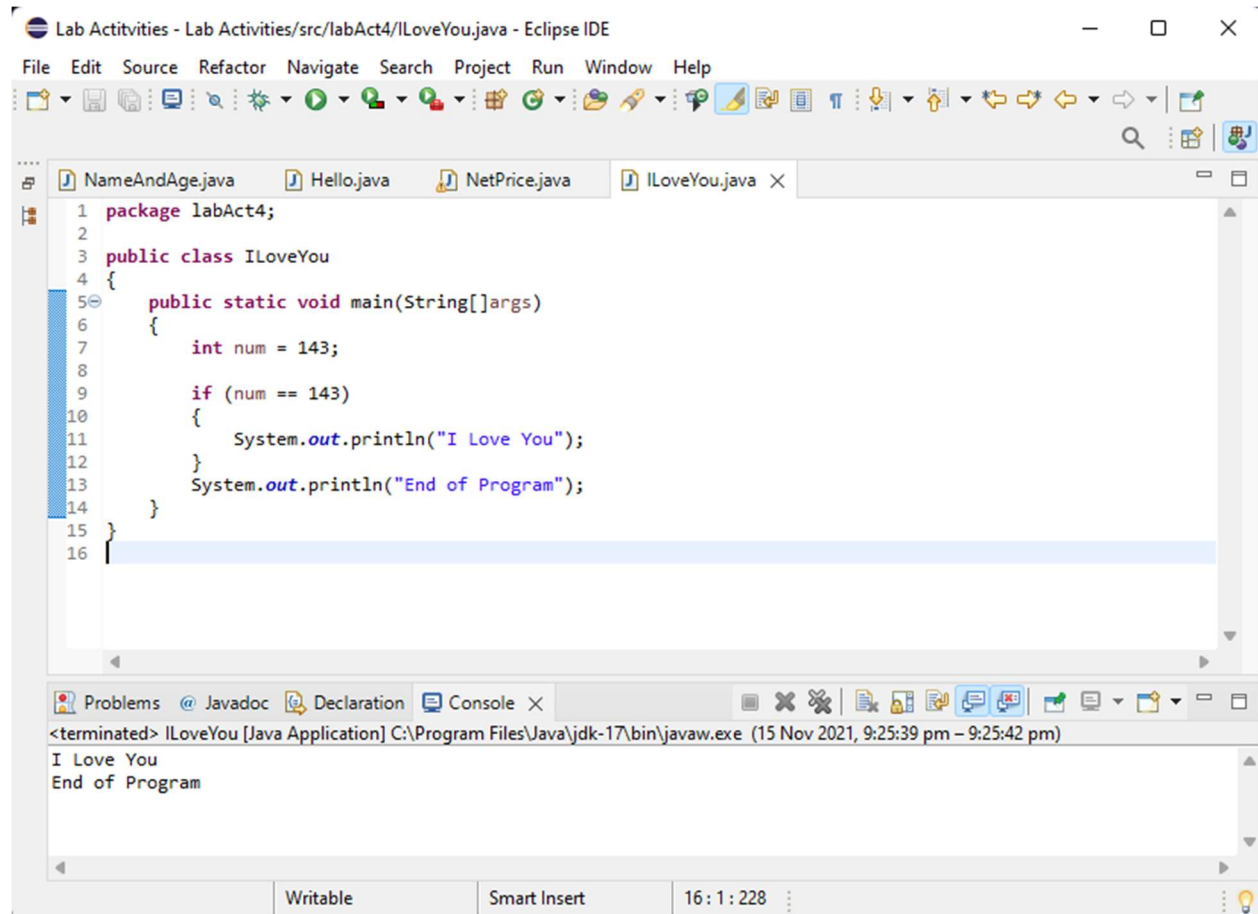


DOCUMENTATION

Laboratory Activity 4

Marasigan, Vem Aiensi A.
1-BSEMC-.1
BS Computer Science

If: I Love You (if statement is True)



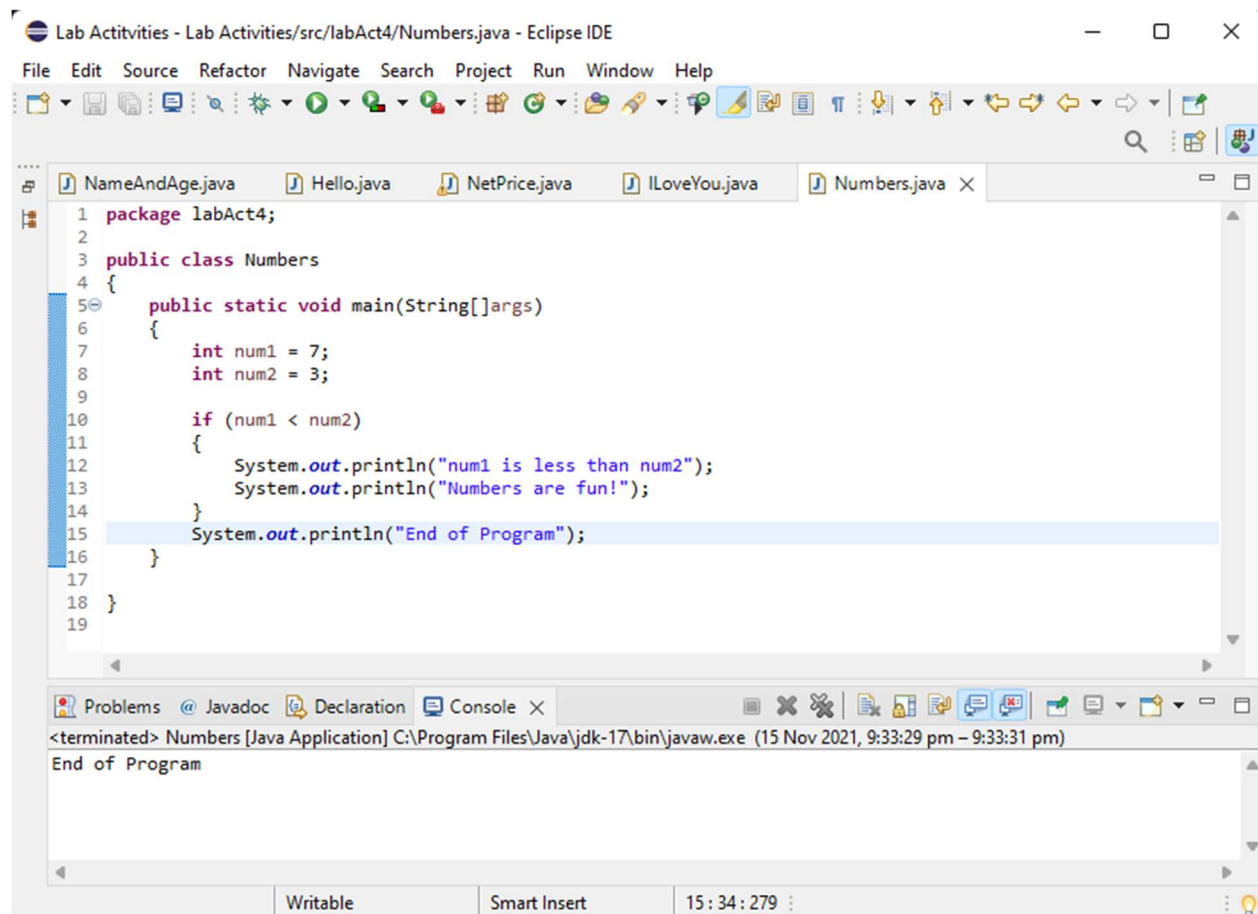
```
1 package labAct4;
2
3 public class ILoveYou
4 {
5     public static void main(String[] args)
6     {
7         int num = 143;
8
9         if (num == 143)
10        {
11            System.out.println("I Love You");
12        }
13        System.out.println("End of Program");
14    }
15 }
16
```

Problems @ Javadoc Declaration Console X

<terminated> ILoveYou [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (15 Nov 2021, 9:25:39 pm – 9:25:42 pm)

I Love You
End of Program

If: Numbers (if statement is False)



```
1 package labAct4;
2
3 public class Numbers
4 {
5     public static void main(String[] args)
6     {
7         int num1 = 7;
8         int num2 = 3;
9
10        if (num1 < num2)
11        {
12            System.out.println("num1 is less than num2");
13            System.out.println("Numbers are fun!");
14        }
15        System.out.println("End of Program");
16    }
17 }
18
19
```

Problems @ Javadoc Declaration Console X

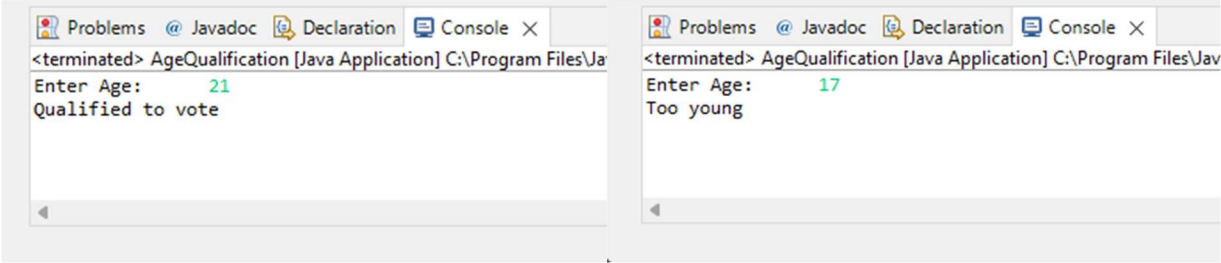
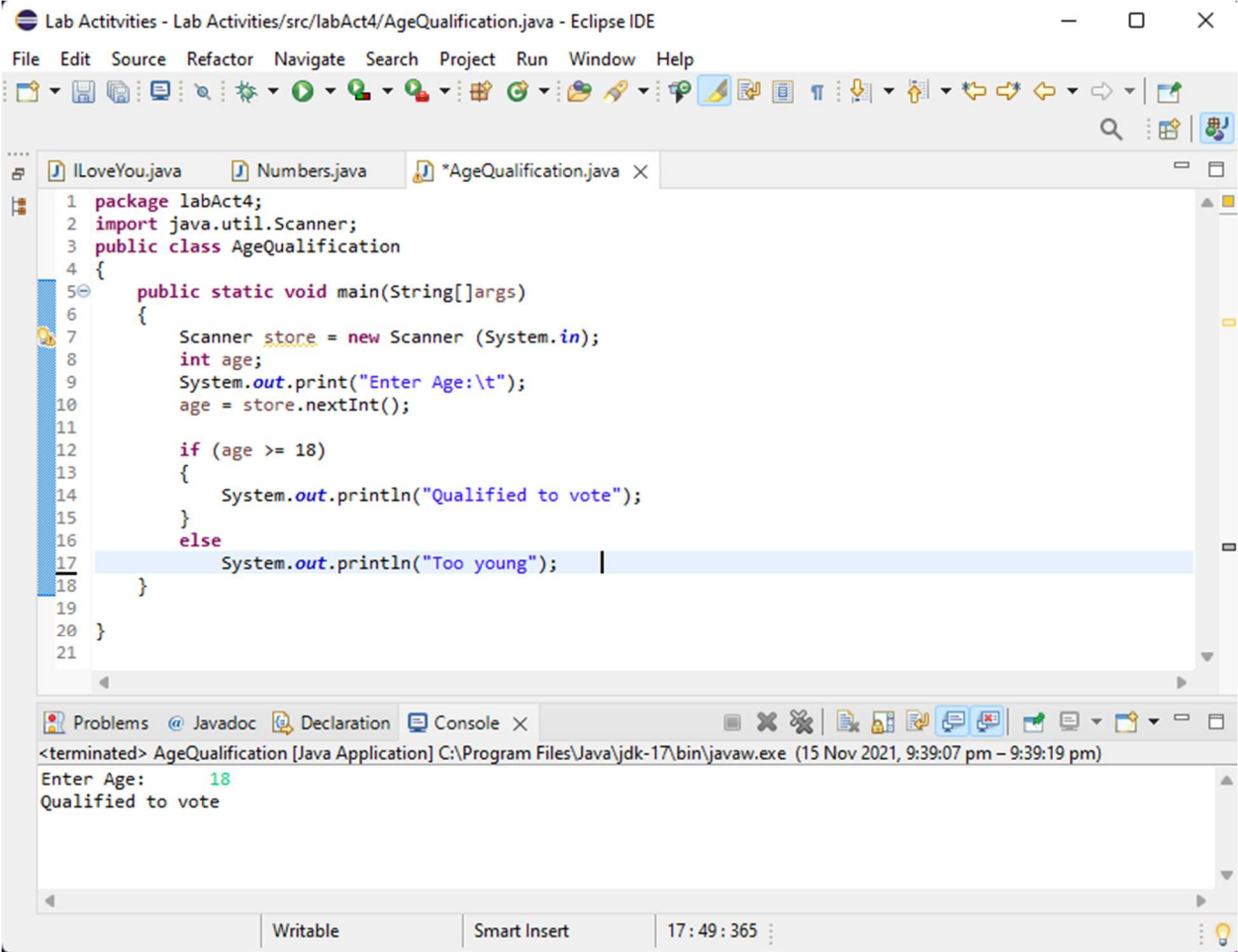
<terminated> Numbers [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (15 Nov 2021, 9:33:29 pm – 9:33:31 pm)

End of Program

DOCUMENTATION
Laboratory Activity 4

Marasigan, Vem Aiensi A.
1-BSEMC-.1
BS Computer Science

If and Else: Age Qualification

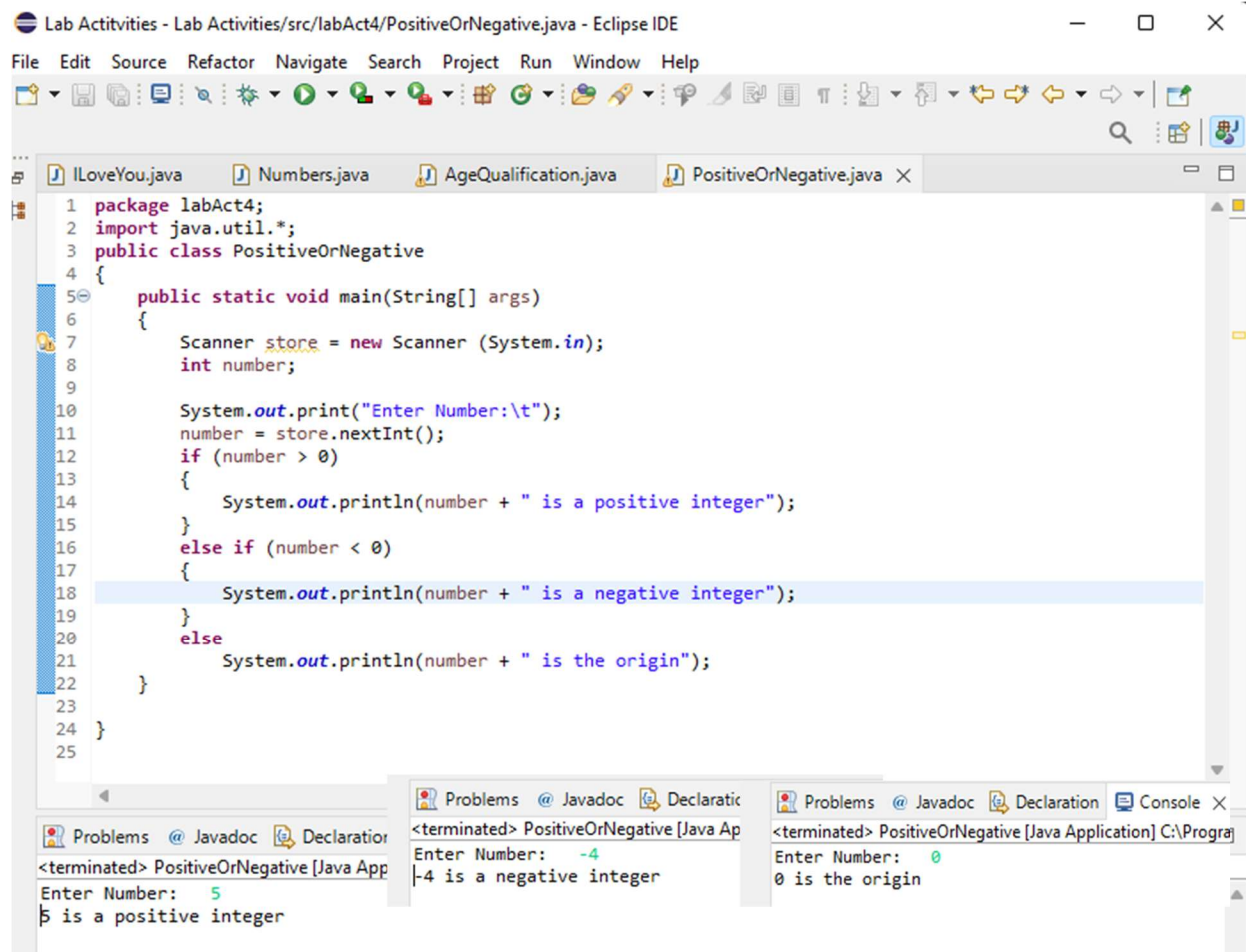


DOCUMENTATION

Laboratory Activity 4

Marasigan, Vem Aiensi A.
1-BSEMC-.1
BS Computer Science

If, else if, and else: Numbers



The screenshot shows the Eclipse IDE with the file `PositiveOrNegative.java` open. The code is as follows:

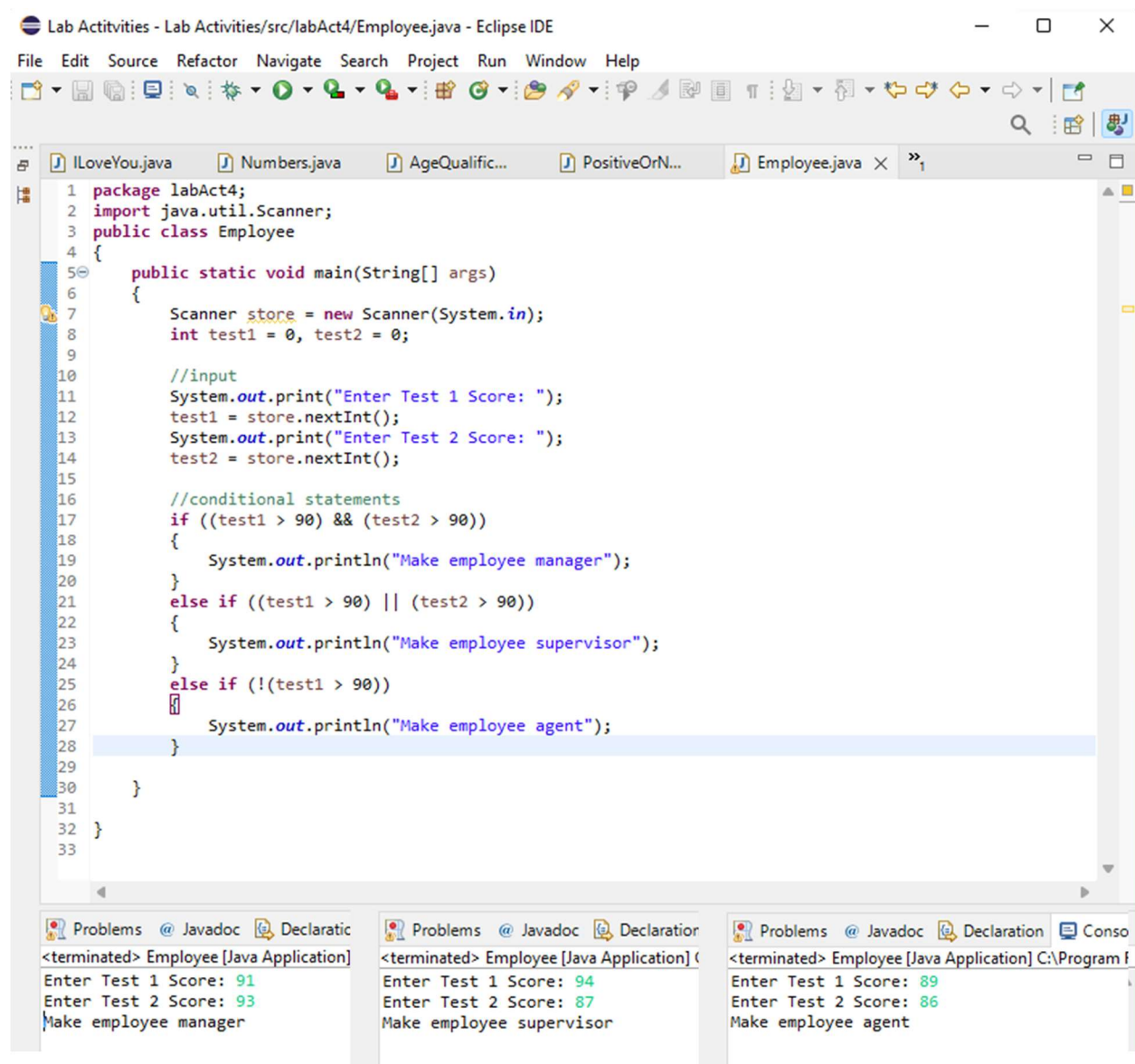
```
1 package labAct4;
2 import java.util.*;
3 public class PositiveOrNegative
4 {
5     public static void main(String[] args)
6     {
7         Scanner store = new Scanner (System.in);
8         int number;
9
10        System.out.print("Enter Number:\t");
11        number = store.nextInt();
12        if (number > 0)
13        {
14            System.out.println(number + " is a positive integer");
15        }
16        else if (number < 0)
17        {
18            System.out.println(number + " is a negative integer");
19        }
20        else
21            System.out.println(number + " is the origin");
22    }
23 }
24 }
25 }
```

The bottom of the IDE shows the console output for two test cases:

```
<terminated> PositiveOrNegative [Java App
Enter Number: 5
5 is a positive integer

<terminated> PositiveOrNegative [Java Application] C:\Progra
Enter Number: -4
-4 is a negative integer
```

If and else if: Employee



The screenshot shows the Eclipse IDE with the file `Employee.java` open. The code is as follows:

```
1 package labAct4;
2 import java.util.Scanner;
3 public class Employee
4 {
5     public static void main(String[] args)
6     {
7         Scanner store = new Scanner(System.in);
8         int test1 = 0, test2 = 0;
9
10        //input
11        System.out.print("Enter Test 1 Score: ");
12        test1 = store.nextInt();
13        System.out.print("Enter Test 2 Score: ");
14        test2 = store.nextInt();
15
16        //conditional statements
17        if ((test1 > 90) && (test2 > 90))
18        {
19            System.out.println("Make employee manager");
20        }
21        else if ((test1 > 90) || (test2 > 90))
22        {
23            System.out.println("Make employee supervisor");
24        }
25        else if (!(test1 > 90))
26        {
27            System.out.println("Make employee agent");
28        }
29    }
30 }
31 }
32 }
33 }
```

The bottom of the IDE shows the console output for three test cases:

```
<terminated> Employee [Java Application]
Enter Test 1 Score: 91
Enter Test 2 Score: 93
Make employee manager

<terminated> Employee [Java Application] C
Enter Test 1 Score: 94
Enter Test 2 Score: 87
Make employee supervisor

<terminated> Employee [Java Application] C:\Program f
Enter Test 1 Score: 89
Enter Test 2 Score: 86
Make employee agent
```

DOCUMENTATION

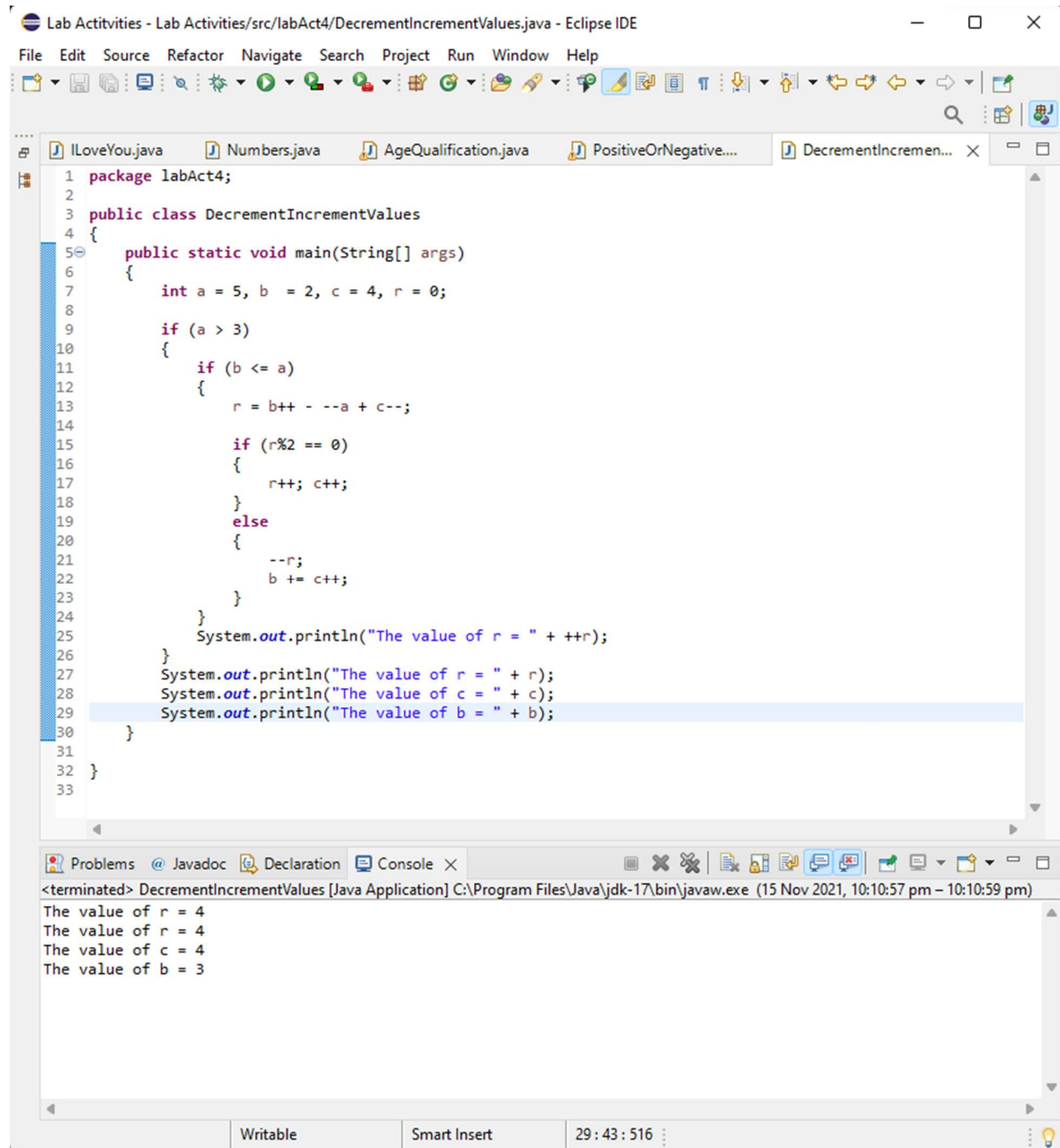
Laboratory Activity 4

Marasigan, Vem Aiensi A.

1-BSEMC-.1

BS Computer Science

Nested If: DecrementIncrementValues



The screenshot displays the Eclipse IDE interface. The top toolbar includes standard development tools like File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. Below the toolbar, several Java files are open in the editor: ILoveYou.java, Numbers.java, AgeQualification.java, PositiveOrNegative..., and DecrementIncrementValues.java. The active file, DecrementIncrementValues.java, contains the following code:

```
1 package labAct4;
2
3 public class DecrementIncrementValues
4 {
5     public static void main(String[] args)
6     {
7         int a = 5, b = 2, c = 4, r = 0;
8
9         if (a > 3)
10        {
11            if (b <= a)
12            {
13                r = b++ - --a + c--;
14
15                if (r%2 == 0)
16                {
17                    r++; c++;
18                }
19                else
20                {
21                    --r;
22                    b += c++;
23                }
24            }
25            System.out.println("The value of r = " + ++r);
26        }
27        System.out.println("The value of r = " + r);
28        System.out.println("The value of c = " + c);
29        System.out.println("The value of b = " + b);
30    }
31 }
32
33
```

Below the code editor, the 'Console' tab is active, showing the output of the program after execution:

```
<terminated> DecrementIncrementValues [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (15 Nov 2021, 10:10:57 pm - 10:10:59 pm)
The value of r = 4
The value of r = 4
The value of c = 4
The value of b = 3
```

The status bar at the bottom indicates the file is 'Writable', 'Smart Insert' is enabled, and the cursor is at line 29, column 43.

DOCUMENTATION
Laboratory Activity 4

Marasigan, Vem Aiensi A.
1-BSEMC-.1
BS Computer Science

Switch Case: Discount

Lab Activities - Lab Activities/src/labAct4/Discount.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

ILoveYou.java Numbers.java AgeQualific... PositiveOrN... Employee.java *Discount.java X

»1

```
1 package labAct4;
2 import java.util.Scanner;
3 import java.text.DecimalFormat;
4 public class Discount
5 {
6     public static void main(String[] args)
7     {
8         Scanner store = new Scanner(System.in);
9         DecimalFormat d = new DecimalFormat("###,###.00 dollars");
10
11         double fare = 0;
12         double discountR = 0;
13         double netFare = 0;
14         double discount;
15         String customer;
16         int customerCode;
17
18         System.out.print("Enter fare : \t");
19         fare = store.nextDouble();
20         System.out.print("Please refer to the code below\n\t0 : Ordinary\n\t1: Student\n\t2:Senior\n"
21             + "Enter customer code:\t");
22         customerCode = store.nextInt();
23
24         switch (customerCode)
25         {
26             case 0:
27                 customer = "an ordinary";
28                 discountR = 0; break;
29             case 1:
30                 customer = "a student";
31                 discountR = 0.1; break;
32             case 2:
33                 customer = "a senior citizen";
34                 discountR = 0.2; break;
35             default: customer = "wrong code";
36         }
37
38         discount = discountR * fare;
39         netFare = fare - discount;
40
41         switch (customer)
42         {
43             case "wrong code":
44                 System.out.println("Invalid code. Please reset the program");break;
45             default:
46                 System.out.println("\nYou are " + customer);
47                 System.out.println("Enjoy " + d.format(discount) + " discount.");
48                 System.out.println("\nNet fare is: \t" + d.format(netFare));
49         }
50     }
51 }
52
```

Problems @ Javadoc Declaration Console X

<terminated> Discount [Java Application] C:\Program Files\Java\jdk-17\bin\javaw

Enter fare : 1000
Please refer to the code below
0 : Ordinary
1: Student
2:Senior
Enter customer code: 2

You are a senior citizen
Enjoy 200.00 dollars discount.

Net fare is: 800.00 dollars

Problems @ Javadoc Declaration Console X

<terminated> Discount [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (1

Enter fare : 2000
Please refer to the code below
0 : Ordinary
1: Student
2:Senior
Enter customer code: 1

You are a student
Enjoy 200.00 dollars discount.

Net fare is: 1,800.00 dollars

Problems @ Javadoc Declaration Console X

<terminated> Discount [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.

Enter fare : 5000
Please refer to the code below
0 : Ordinary
1: Student
2:Senior
Enter customer code: 2

You are a senior citizen
Enjoy 1,000.00 dollars discount.

Net fare is: 4,000.00 dollars

Problems @ Javadoc Declaration Console X

<terminated> Discount [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (15 Nov 2

Enter fare : 60000
Please refer to the code below
0 : Ordinary
1: Student
2:Senior
Enter customer code: 3
Invalid code. Please reset the program