**BÁO CÁO THỰC HÀNH LAB 1**

**LẬP TRÌNH HƯỚNG ĐỐI TƯỢNG**

2.2 The very first Java program

2.2.1 Write, compile the first Java application.

Text

Description automatically generated

Result

A screenshot of a computer

Description automatically generated with medium confidence

2.2.2 Write, compile the first dialog Java program.

**Text

Description automatically generated**

Result

**Graphical user interface, text, application, chat or text message

Description automatically generated**

2.2.3 Write, compile the first input dialog Java application.

Text

Description automatically generated

Result

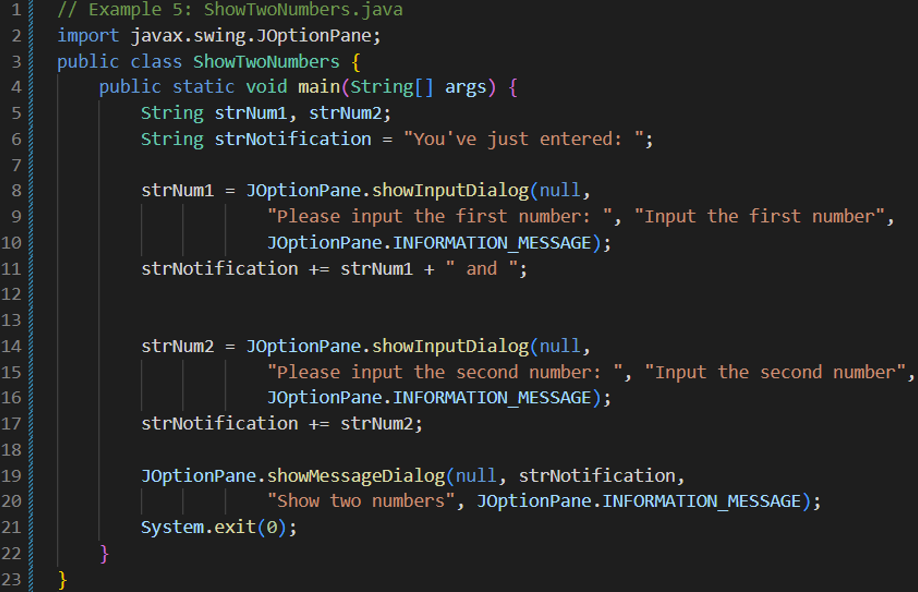
Graphical user interface, text

Description automatically generated

Graphical user interface, text

Description automatically generated

2.2.4 Write, compile, and run the following example.



Result

Text

Description automatically generated

A screenshot of a computer

Description automatically generated

Text

Description automatically generated

2.2.5 Write a program to calculate sum, difference, product, and quotient of double numbers which are entered by users.

**Notes**

* To convert from String to double, you can use

**double num1 = Double.parseDouble(strNum1)**

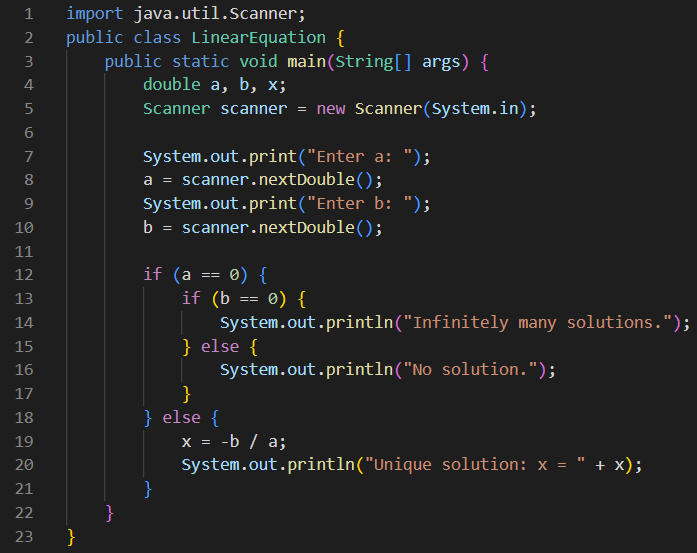
* Check the divisor of the division

Text

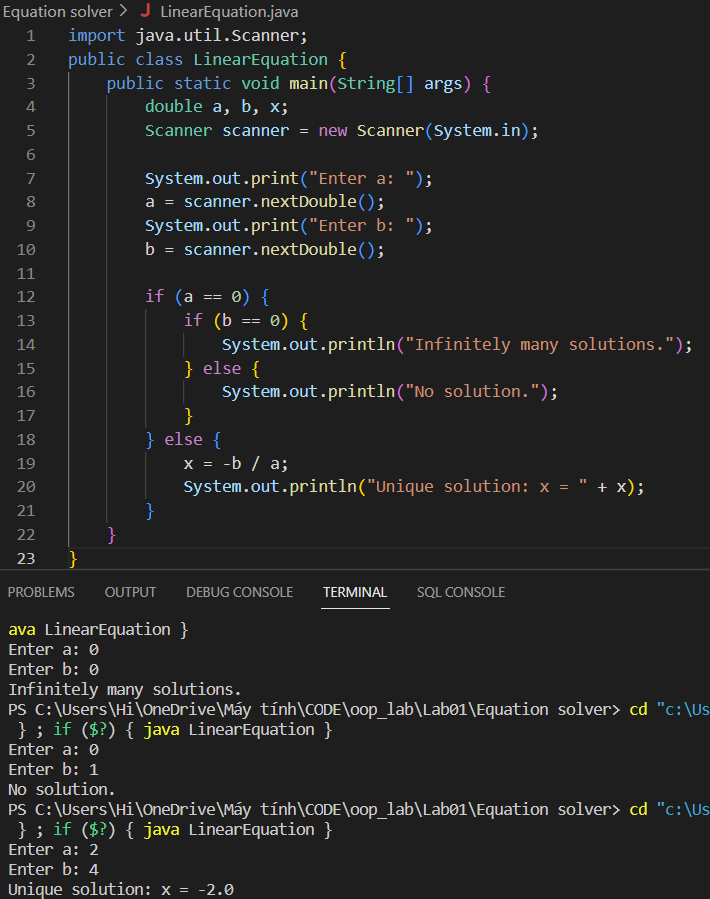
Description automatically generated

2.2.6 Write a program to solve linear equations.

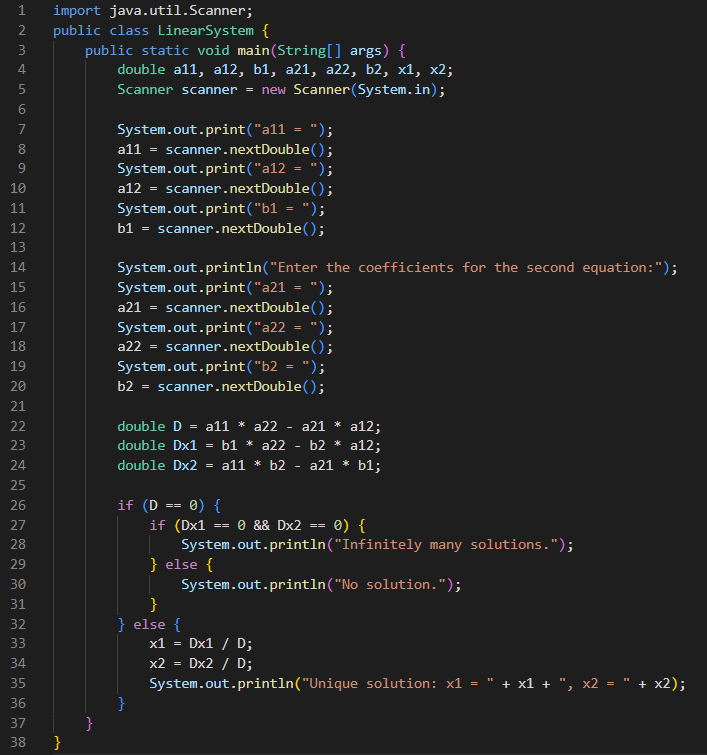
- The first-degree equation (linear equation) with one variable



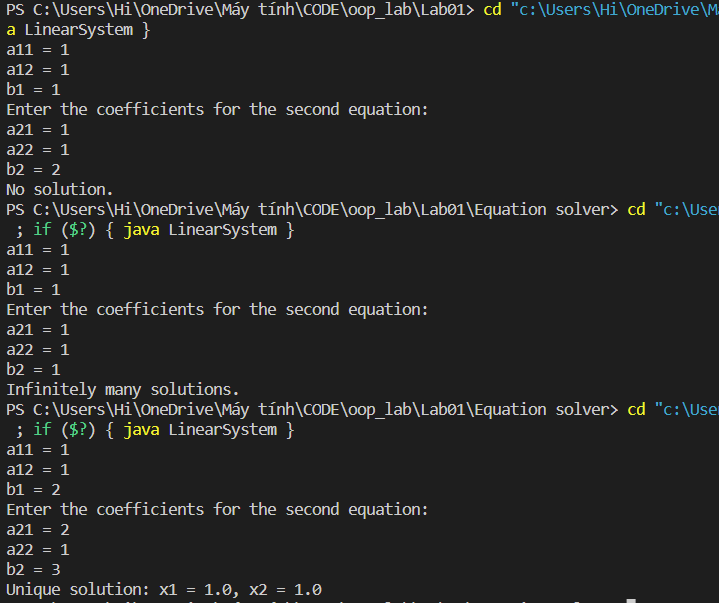
Result



- The system of first-degree equations (linear system) with two variables



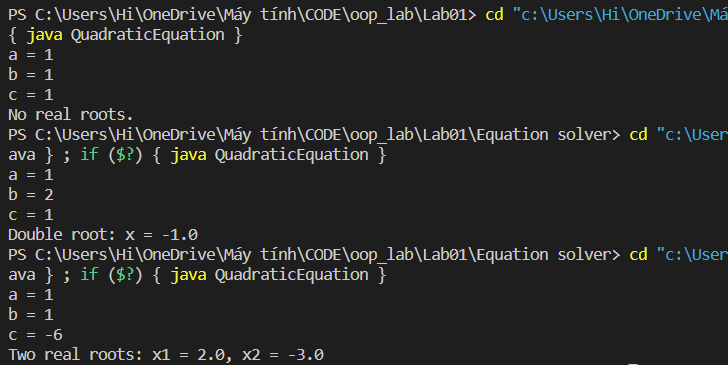
Result



- The second-degree equation with one variable

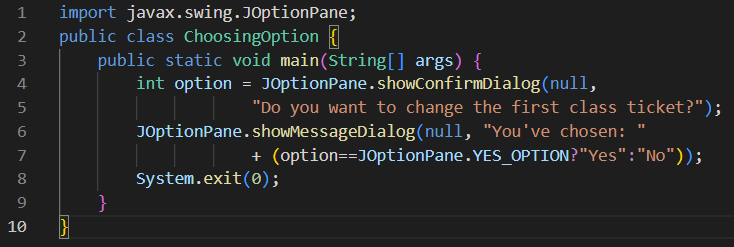


Result



6 Exercises

6.1 Write, compile and run the ChoosingOption program

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Result

**Graphical user interface, text, chat or text message

Description automatically generated**

Graphical user interface, text, application, chat or text message

Description automatically generated

Graphical user interface, text, chat or text message

Description automatically generated

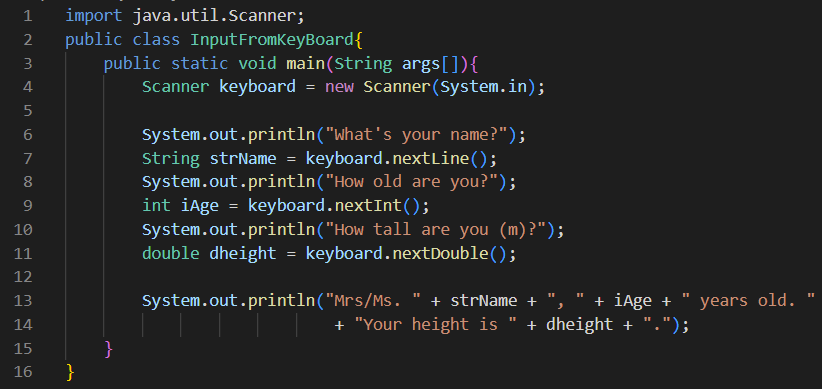
- What happens if users choose “Cancel”?

The result is “No” because if the user does not select “Yes”, the default answer is “No”.

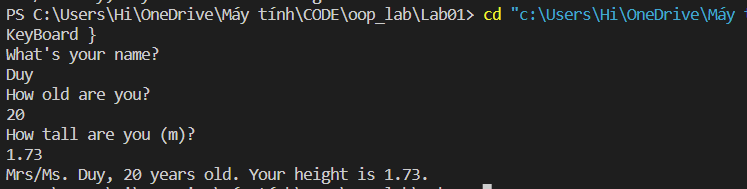
- How to customize the options to users, e.g. only two options: “Yes” and “No”, OR “I do” and “I don’t”

Use showOptionDialog instead of showConfirmDialog.

6.2 Write a program for input/output from keyboard.



Result



6.3 Write a program to display a triangle with a height of n stars (\*), n is entered by users.

Text

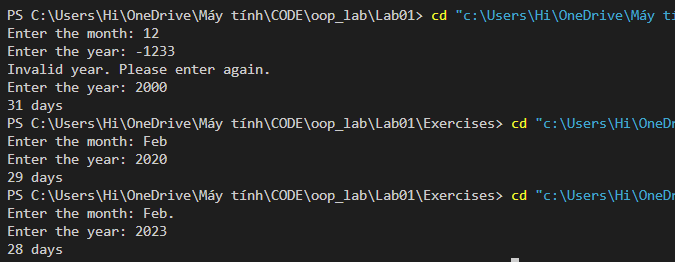
Description automatically generated

6.4 Write a program to display the number of days of a month, which is entered by users (both month and year). If it is an invalid month/year, ask the user to enter again.

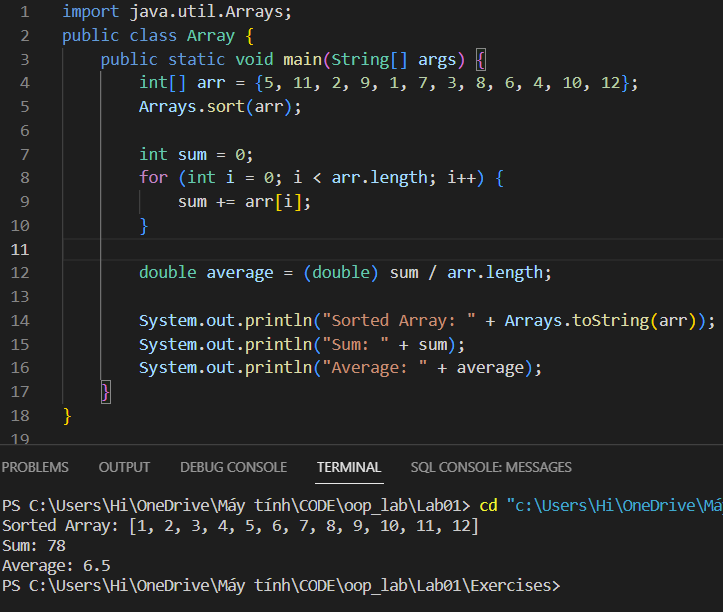
A picture containing graphical user interface

Description automatically generated

Result



6.5 Write a Java program to sort a numeric array, and calculate the sum and average value of array element.



6.5 Write a Java program to add two matrices of the same size.

Text

Description automatically generated

Result

