BÁO CÁO THỰC HÀNH LAB 1  
LẬP TRÌNH HƯỚNG ĐỐI TƯỢNG

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# **Part I. The Very First Java Programs**

## 2.2.1Write, compile the first Java application:



*Kết quả:*

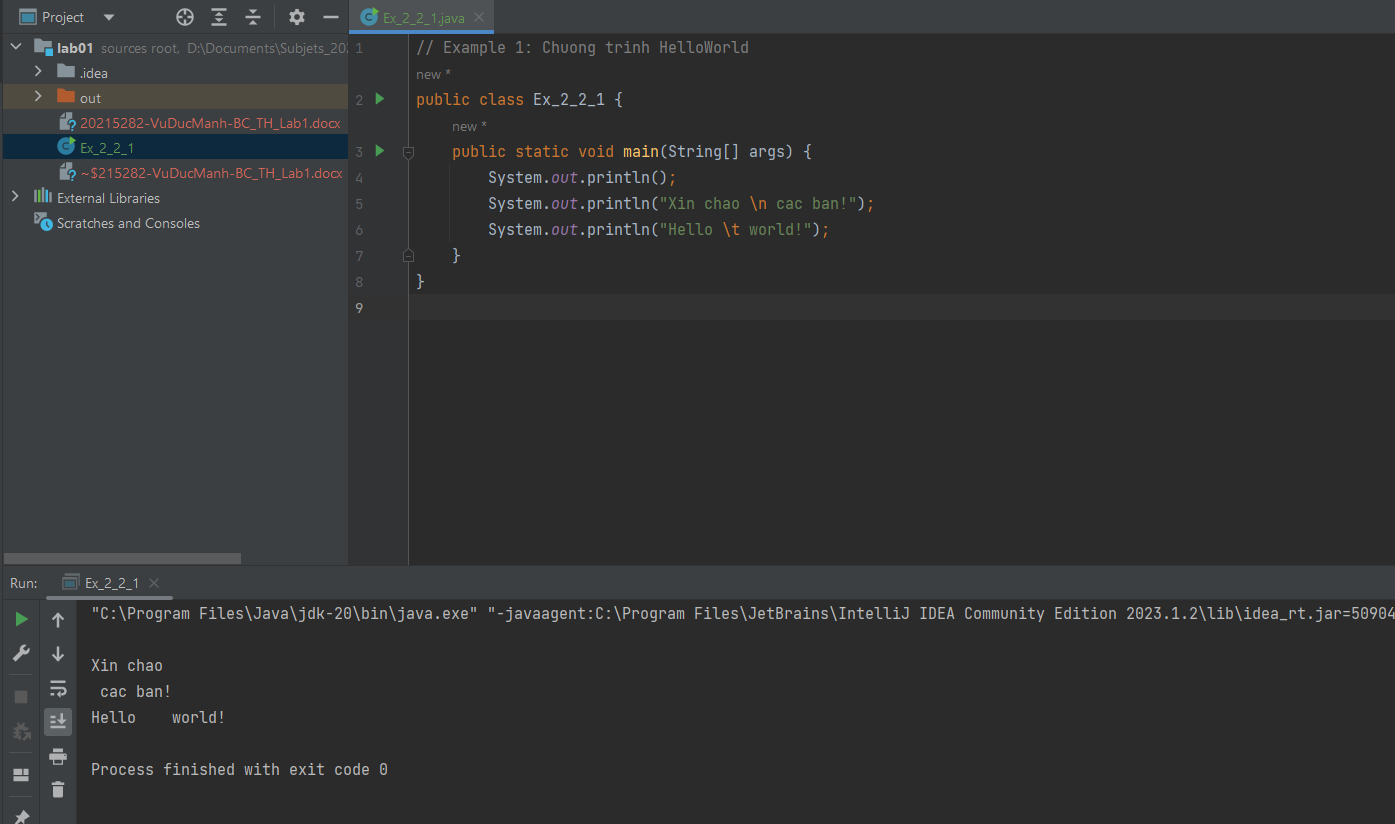


Figure 1: Chương trình đầu tiên HelloWorld

## Screen Shot 2019-02-12 at 122.2.2 Write, compile the first dialog Java program

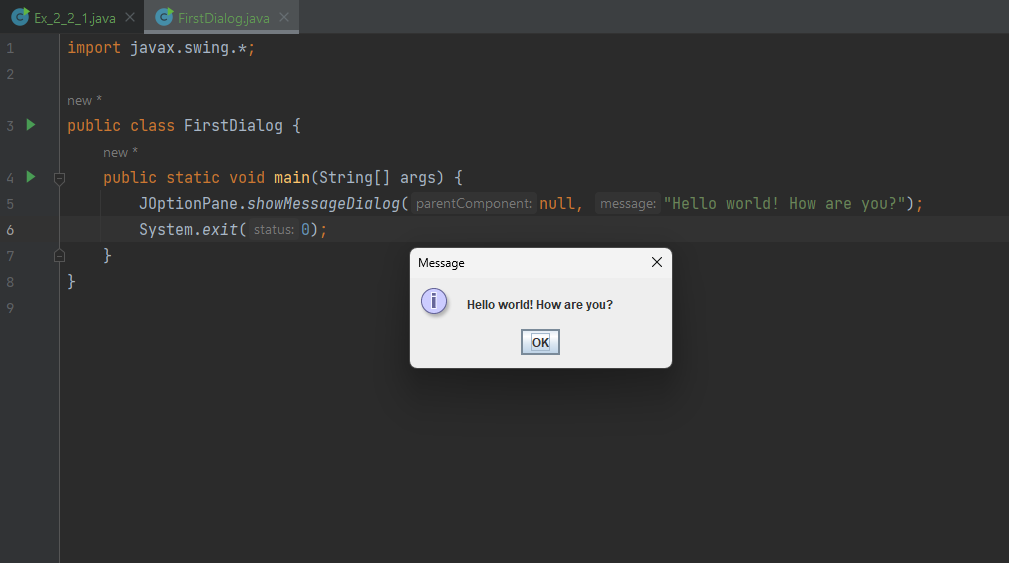
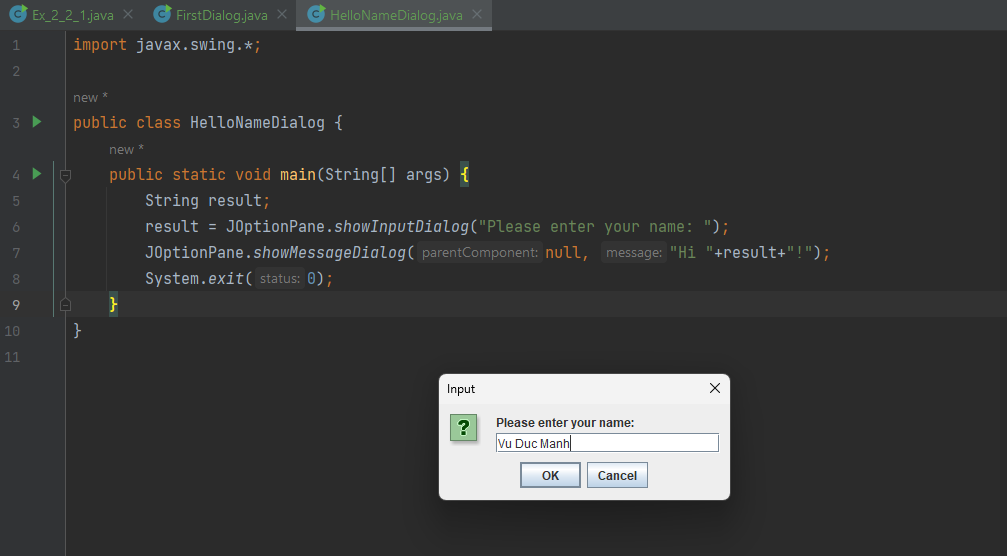


Figure 2: First dialog Java program

## 2.2.3 Write, compile the first input dialog Java application





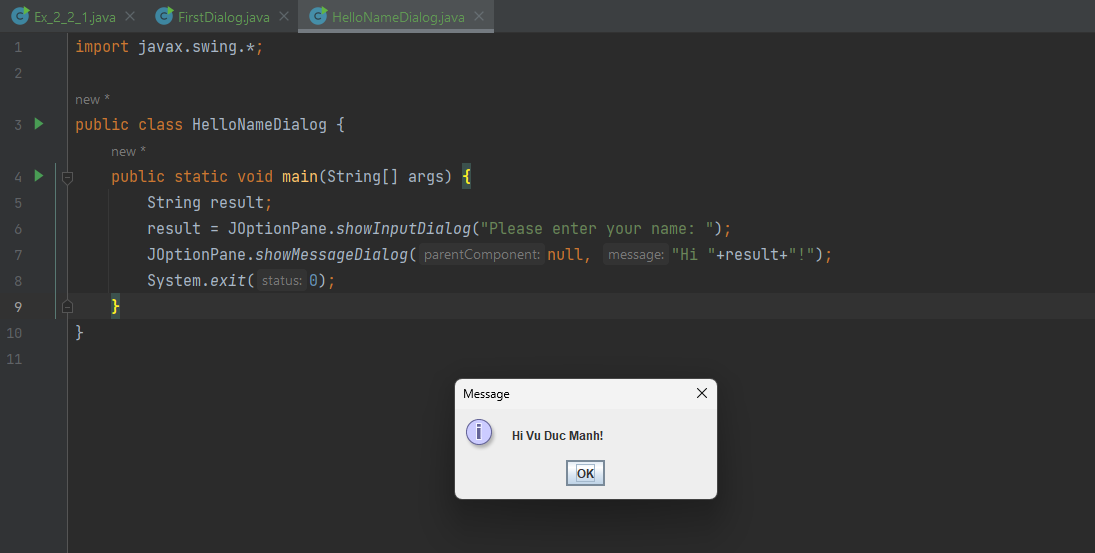
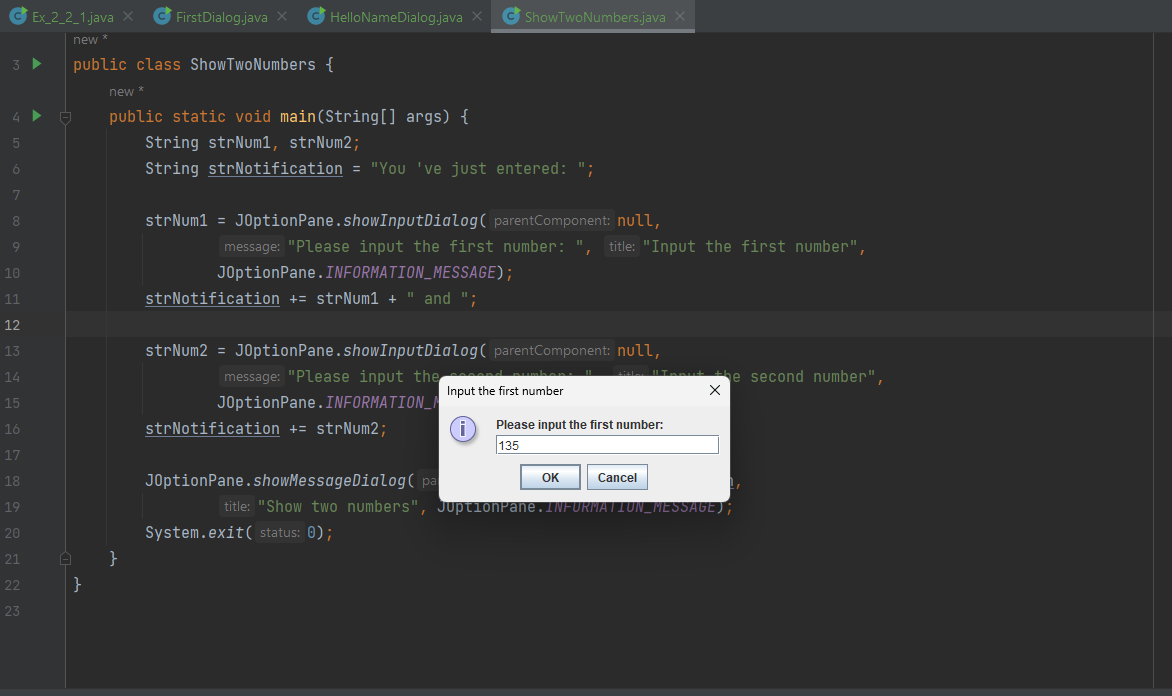
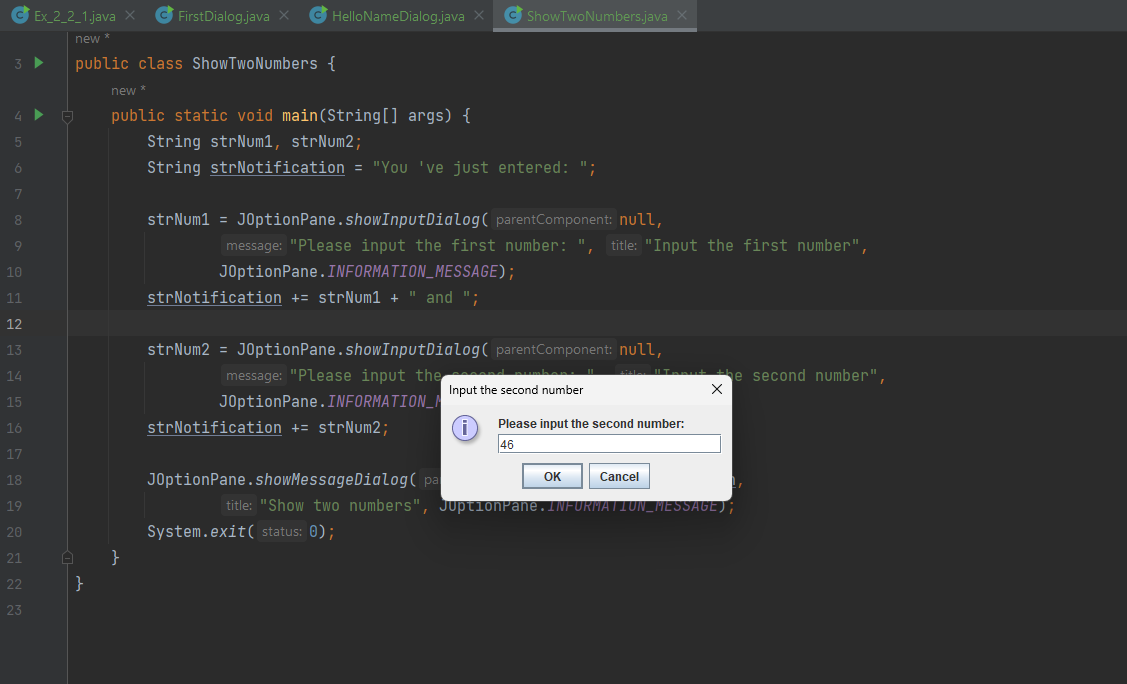


Figure 3: First input dialog Java application

## 2.2.4 Write, compile, and run the following example:







A screenshot of a computer program

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Figure 4: Show Two Numbers

## 2.2.5 Write a program to calculate sum, difference, product, and quotient of 2 double numbers which are entered by users.

**Notes**

* To convert from String to double, you can use

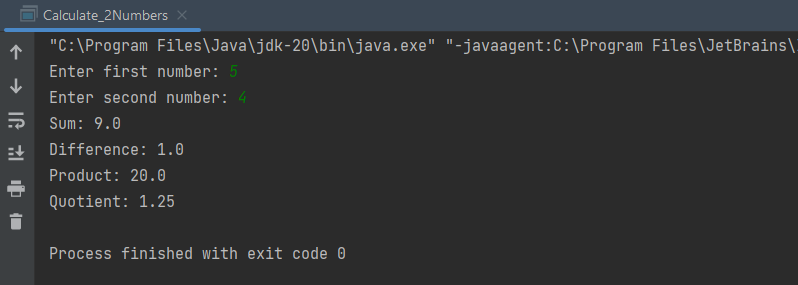
**double num1 = Double.parseDouble(strNum1)**

* Check the divisor of the division

A screenshot of a computer program

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Figure 5: Caculate 2 numbers program



## 2.2.6. Write a program to solve:

* The first-degree equation (linear equation) with one variable
* The system of first-degree equations (linear system) with two variables
* The second-degree equation with one variable



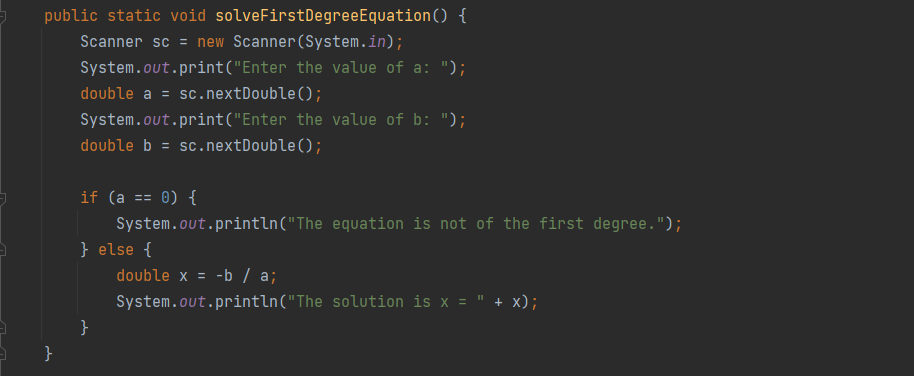


Figure 6: The first-degree equation with one variable

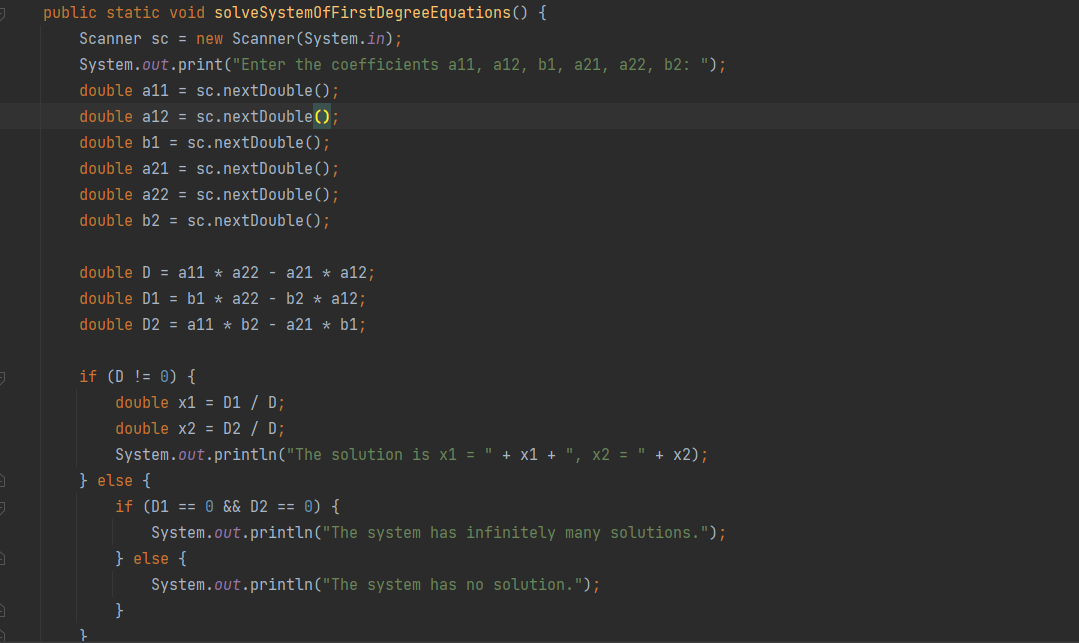


Figure 7: The system of first-degree equations with two variables

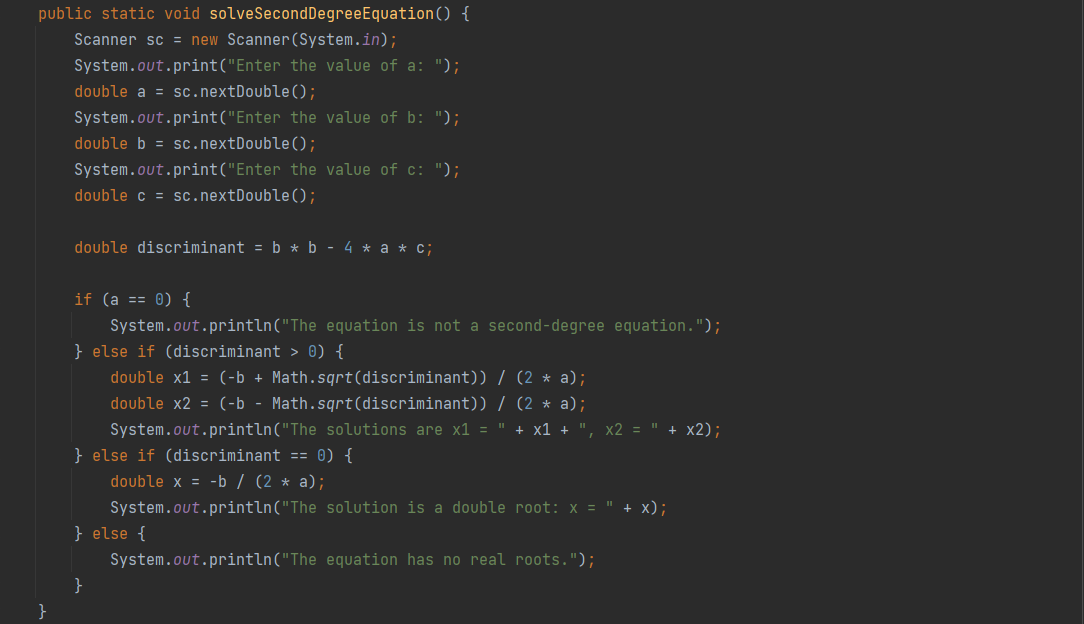


Figure 8: The second-degree equation with one variable

# **Part II: 6. Exercises:**

## Write, compile, and run the Choosing Option program:

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Figure 9: Choosing Option program\_ver1.0

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A screen shot of a computer

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A screen shot of a computer

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* Nếu người dùng chọn "Cancel”, thì biến **option** sẽ nhận giá trị **JOptionPane.CANCEL\_OPTION**. Sau đó, thông điệp "You've chosen: No" sẽ được hiển thị
* Sửa với 4 options: “Yes”, “No”, “I do”, “I don’t”.

A screenshot of a computer program

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Figure 10: Choosing Option program\_ver2.0

## Write a program for input/output from keyboard

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Figure 11: Program for input/output from keyboard

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

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A screen shot of a computer program

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Figure 12: Program to display a triangle

## 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 screen shot of a computer

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A screenshot of a computer

Description automatically generated

Figure 13: Program to display the number of days of a month

## Write a Java program to sort a numeric array and calculate the sum and average value of array elements.

A computer screen with text

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Figure 14: Program to sort an array and calculate the sum and average value

A screenshot of a computer program

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

**Note**: You must create a new Java project for this exercise.

* The matrices can be entered by the user or constants.

A screenshot of a computer program

Description automatically generated

Figure 15: Java program to add two matrices of same size