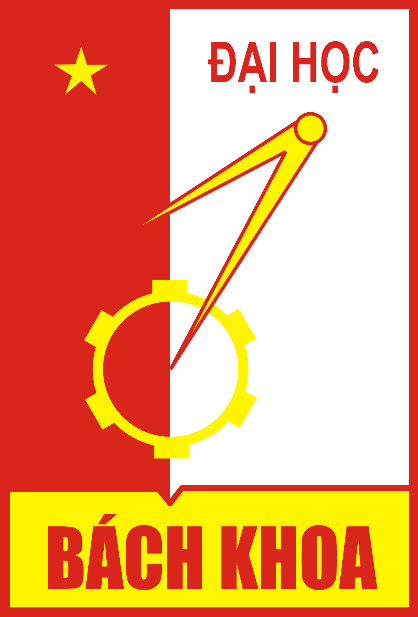
**ĐẠI HỌC BÁCH KHOA HÀ NỘI**

**TRƯỜNG CÔNG NGHỆ THÔNG TIN VÀ TRUYỀN THÔNG**



BÁO CÁO THỰC HÀNH

IT3103 – 744527 – 2024.1

**BÀI THỰC HÀNH – LAB 1**

|  |  |
| --- | --- |
| **Họ và tên SV:** | **Trịnh Hữu An** |
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Hà Nội, tháng 9 năm 2024

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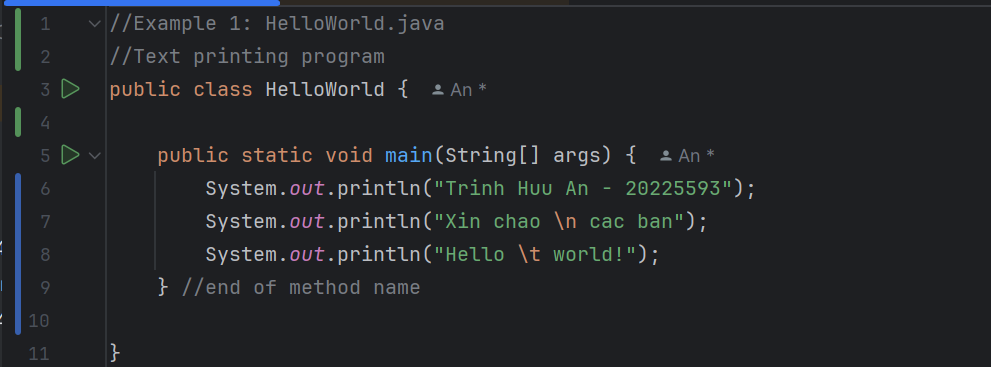
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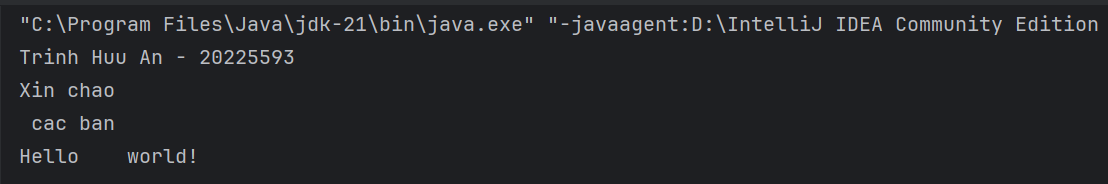
# First Programs

## The Very First Java Programs

### Write, compile the first Java application:

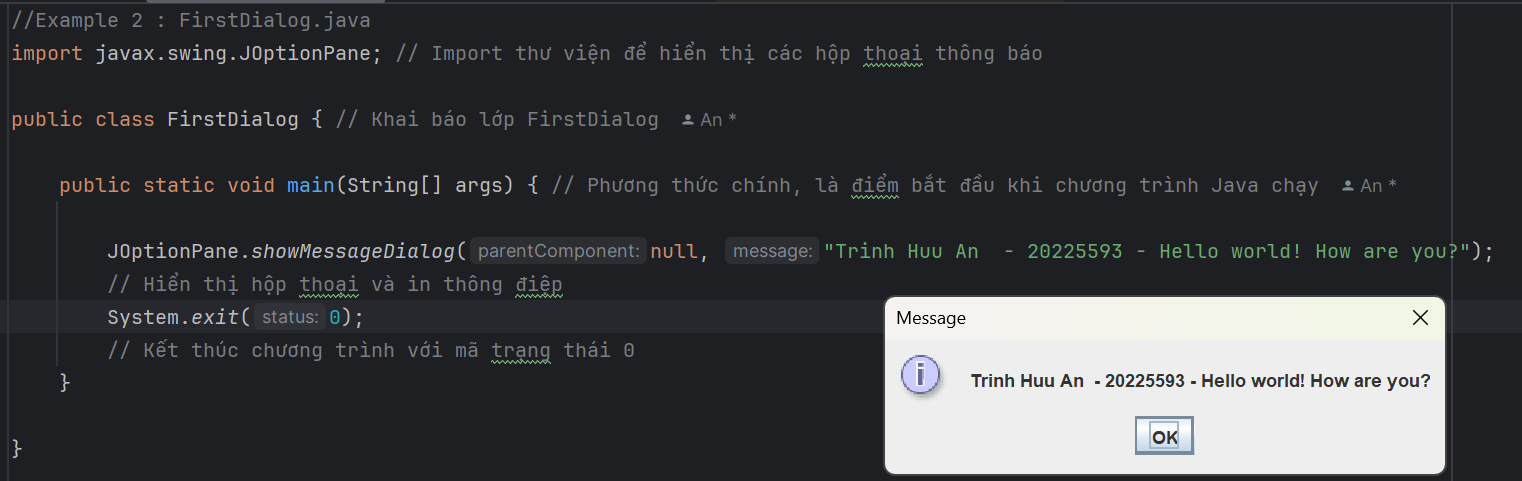


Hình : Mã nguồn Hello WorldWorld

****

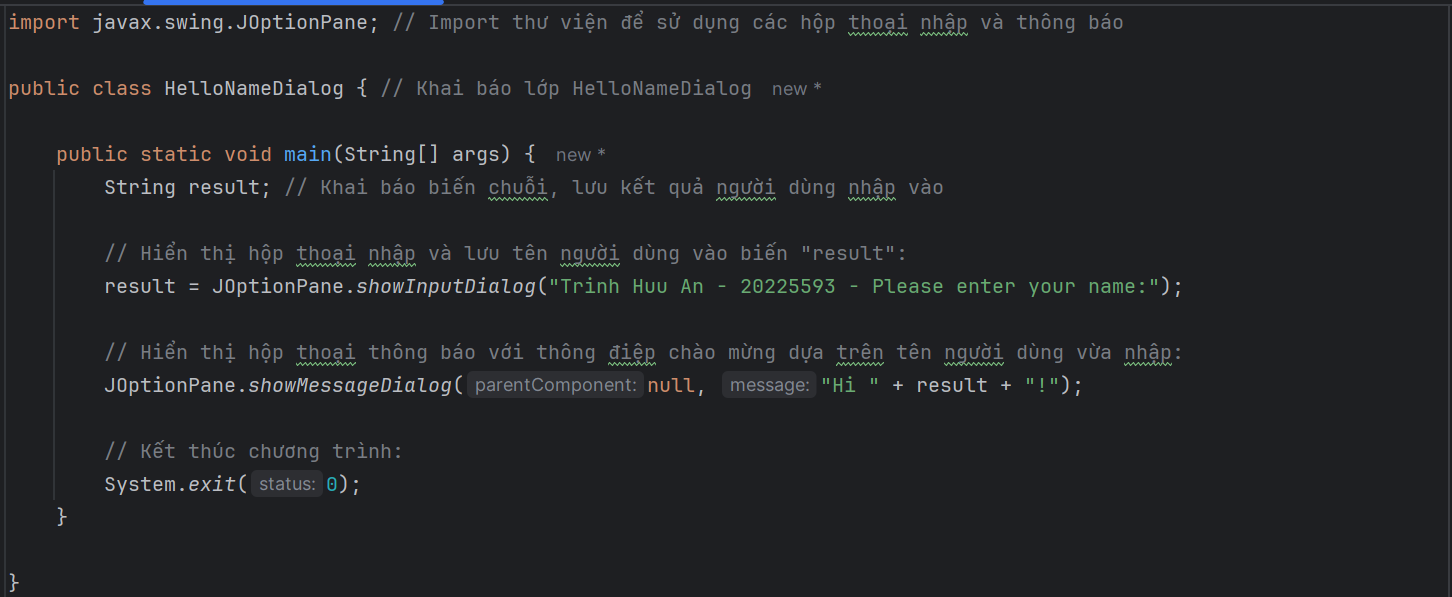
Hình : Kết quả mã nguồn Hello World

### Write, compile the first dialog Java program

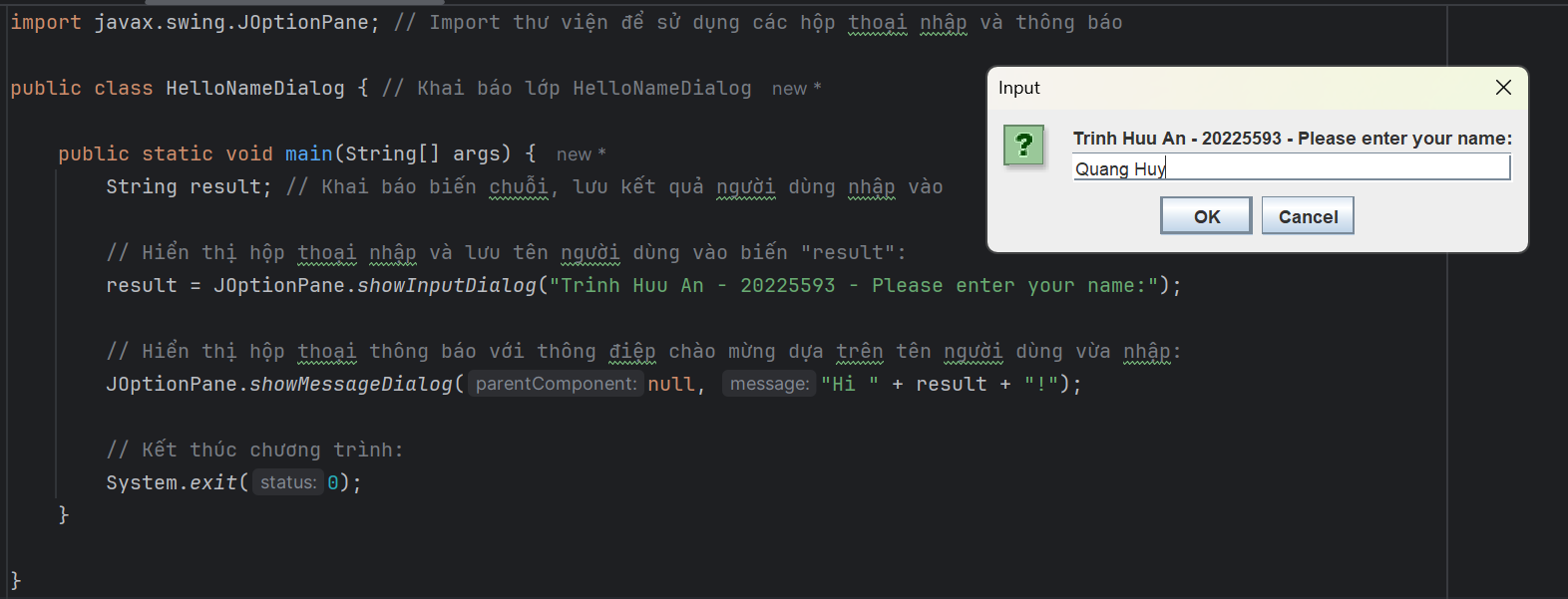


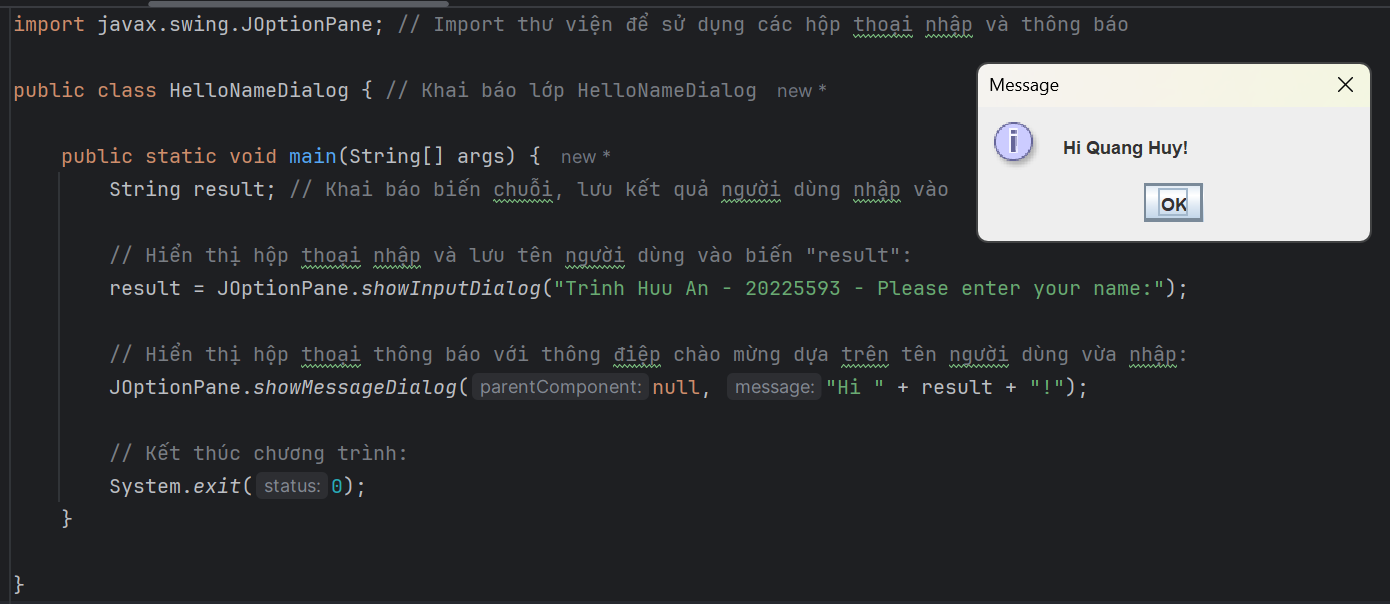
Hình : Mã nguồn và kết quả FirstDialog

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



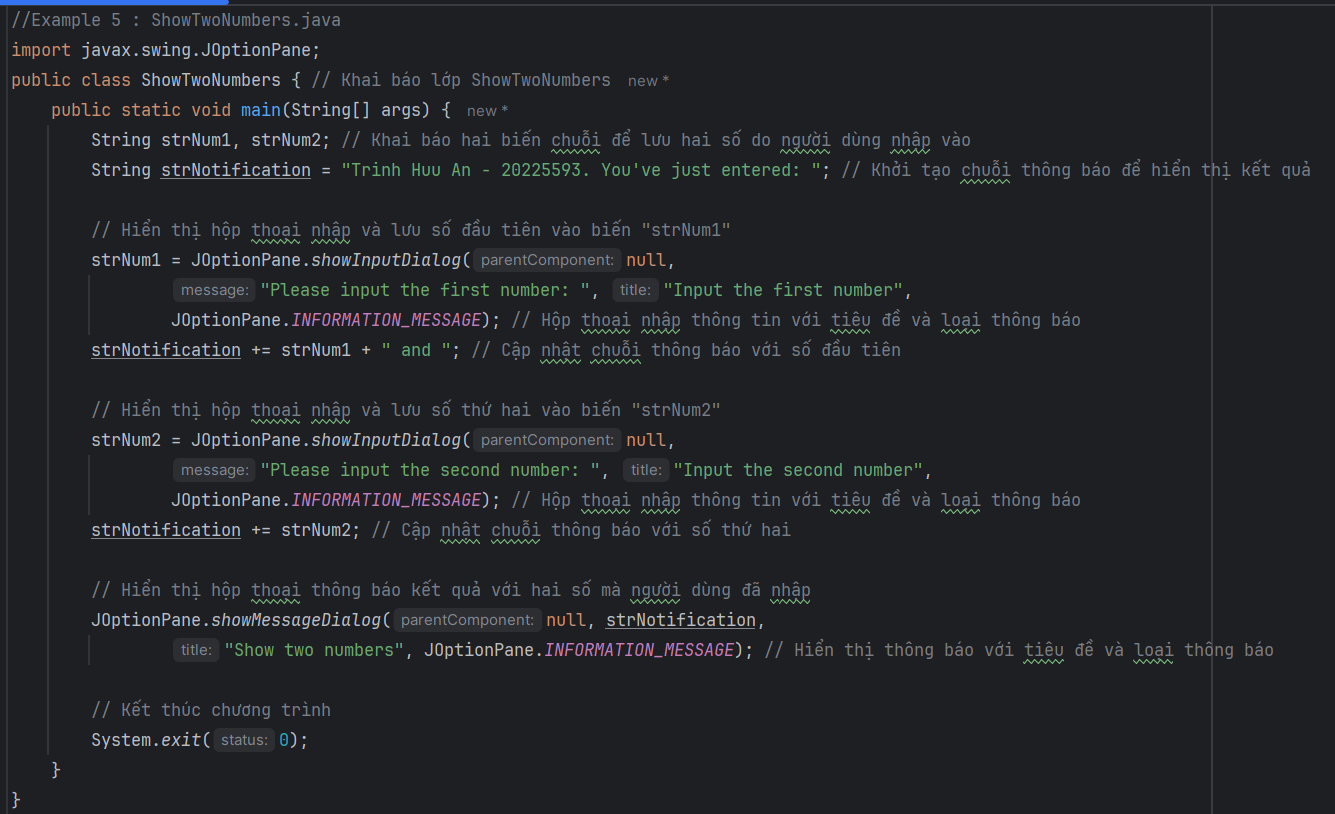
Hình : Mã nguồn HelloNameDialog



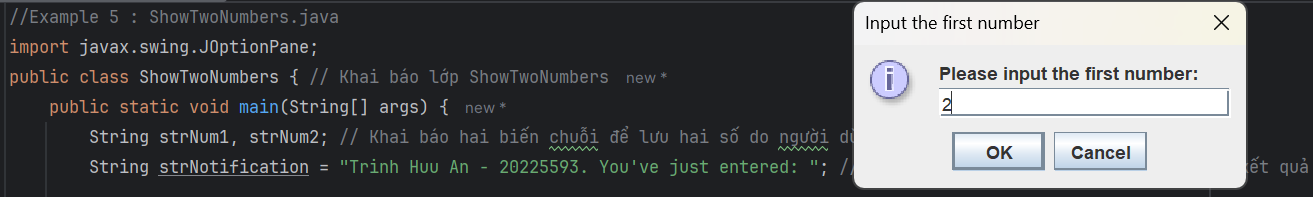


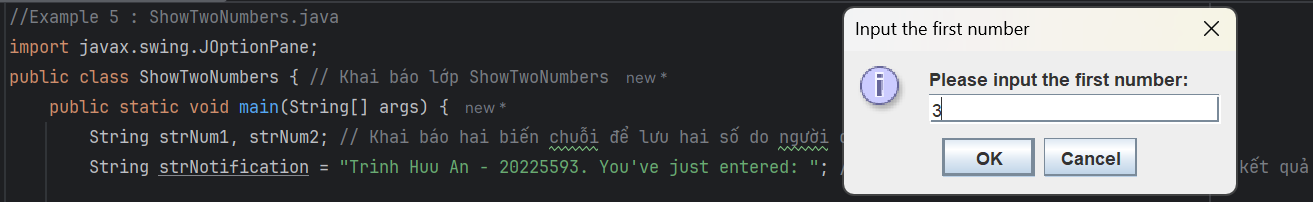
Hình : Kết quả HelloNameDialog

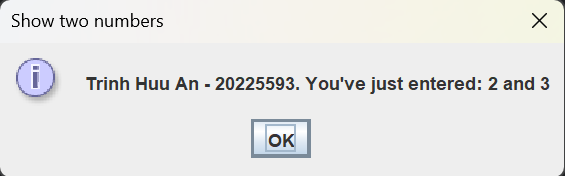
### Write, compile, and run the following example:



Hình : Mã nguồn ShowTwoNumbers

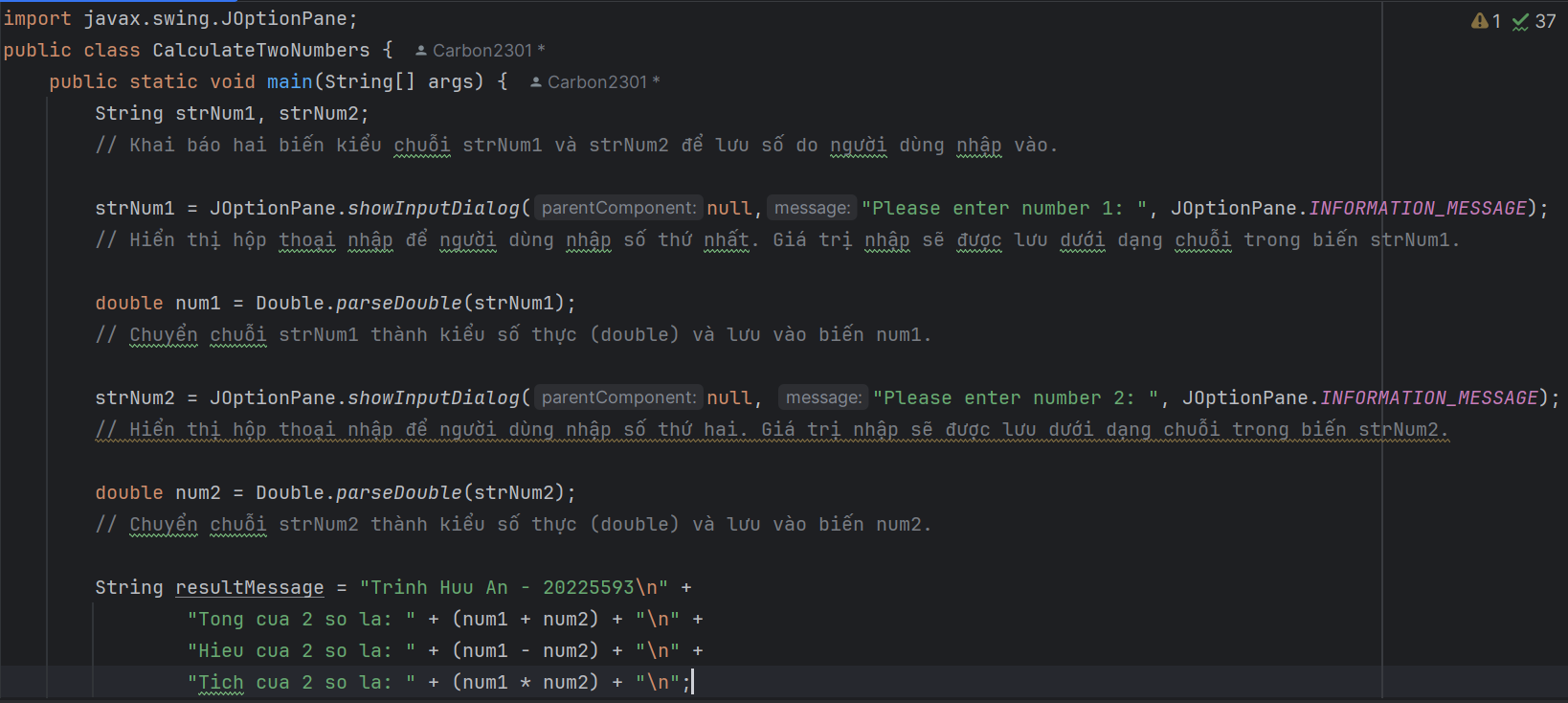


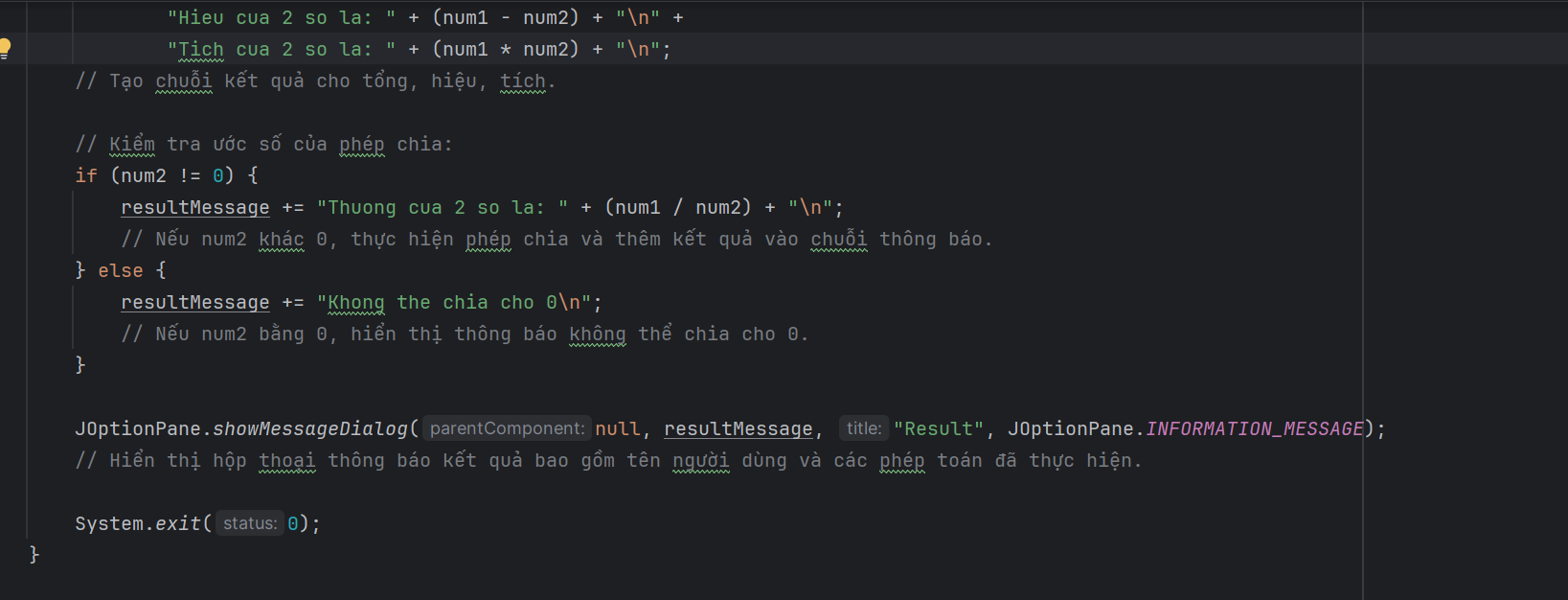




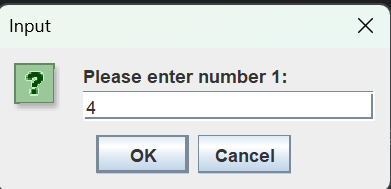
Hình : Kết quả ShowTwoNumber

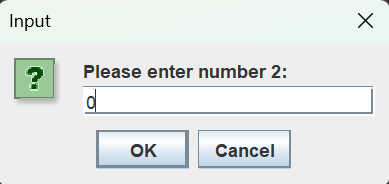
### Write a program to calculate sum, difference, product, and quotient of 2 double numbers which are entered by users.

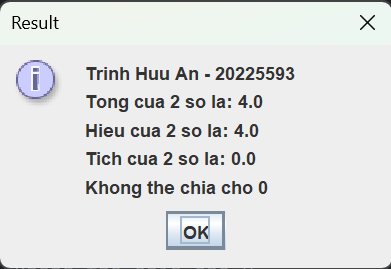


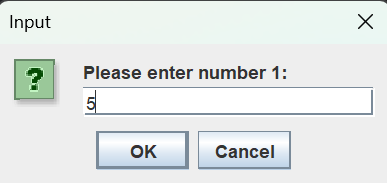


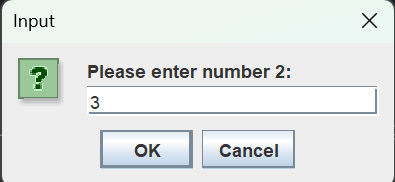
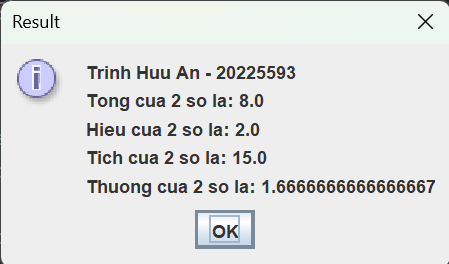
Hình : Mã nguồn CalculateTwoNumbers





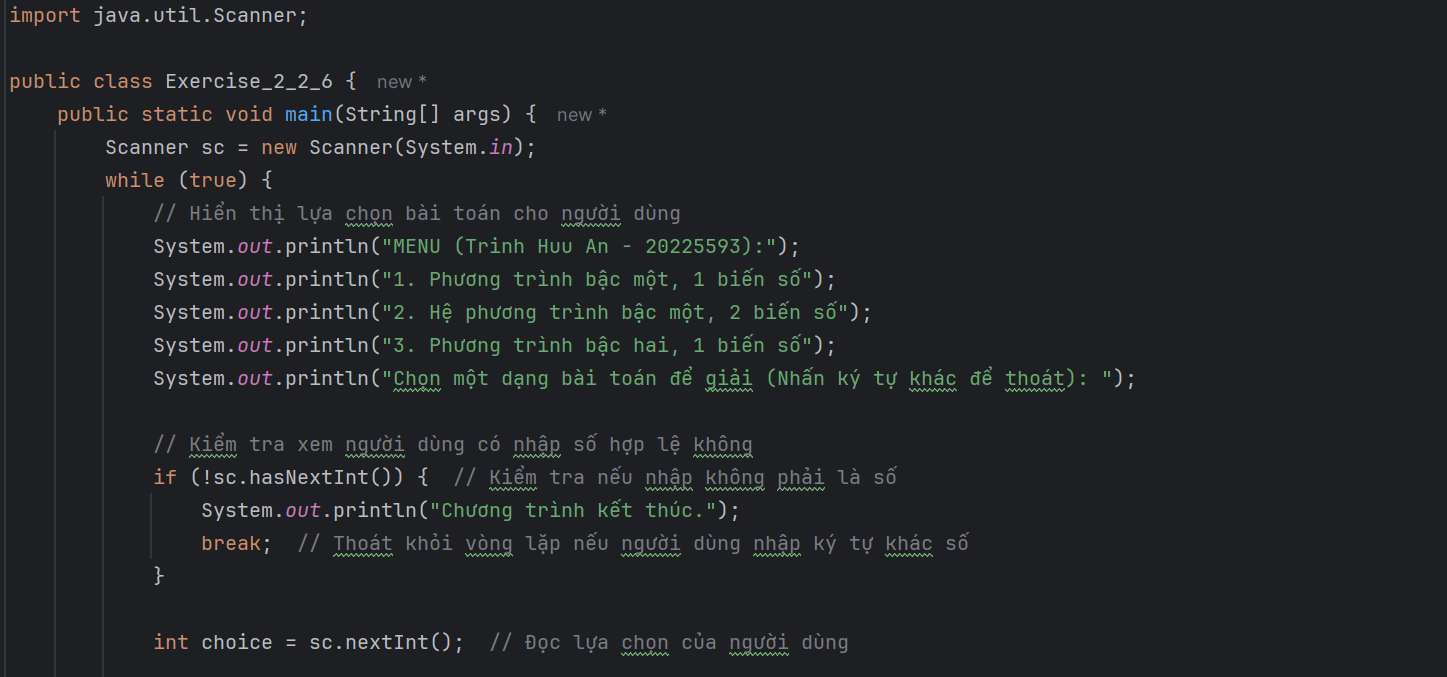


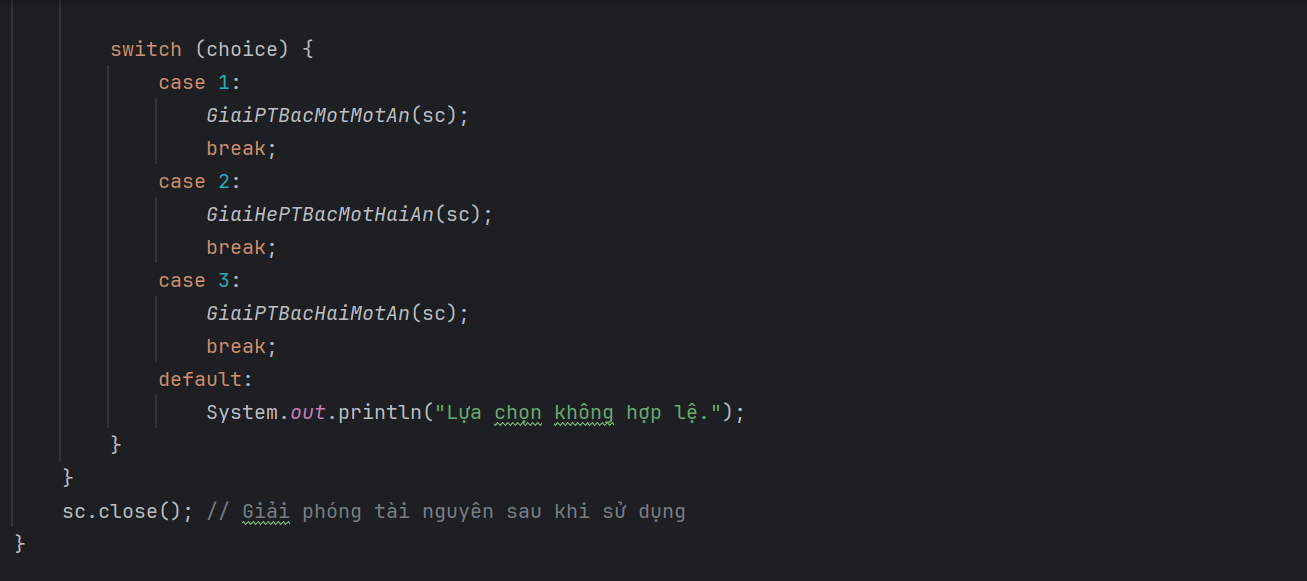


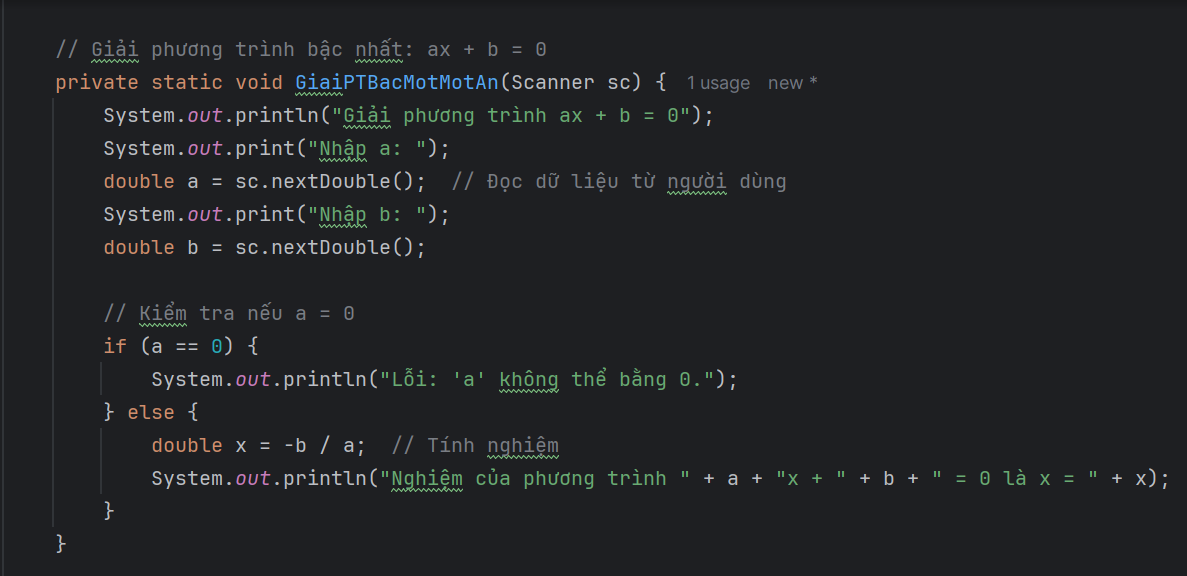
 

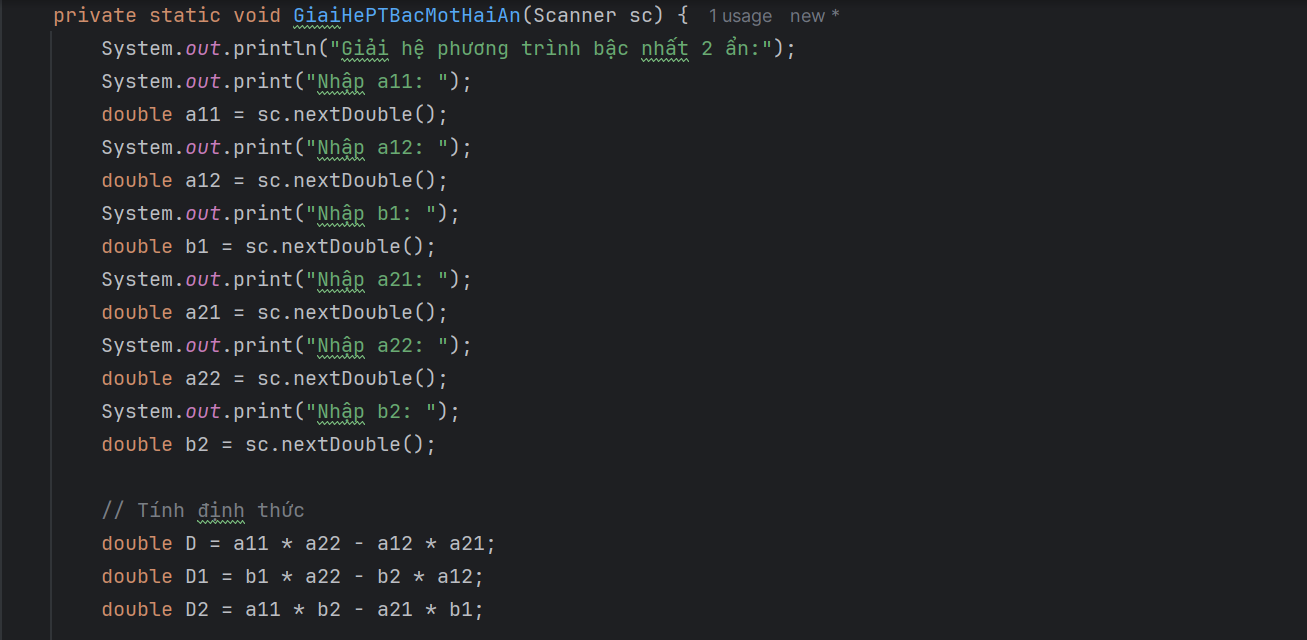
Hình : Kết quả CalculateTwoNumbers

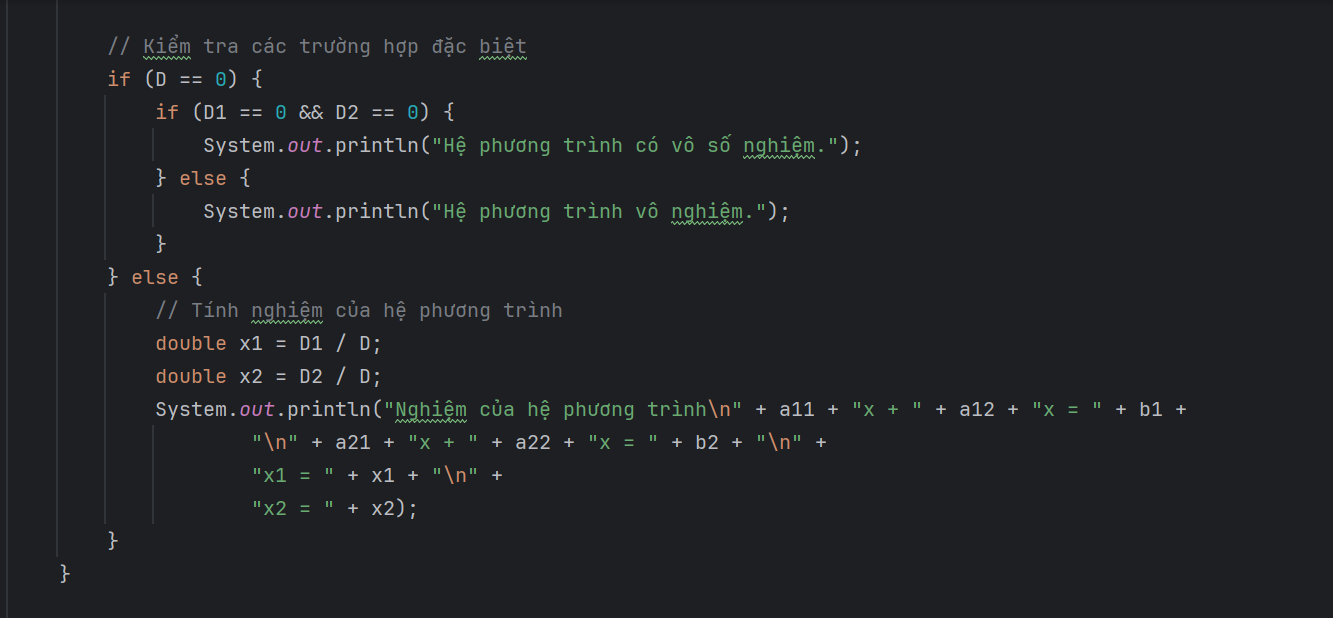
### Write a program to solve Exercise:

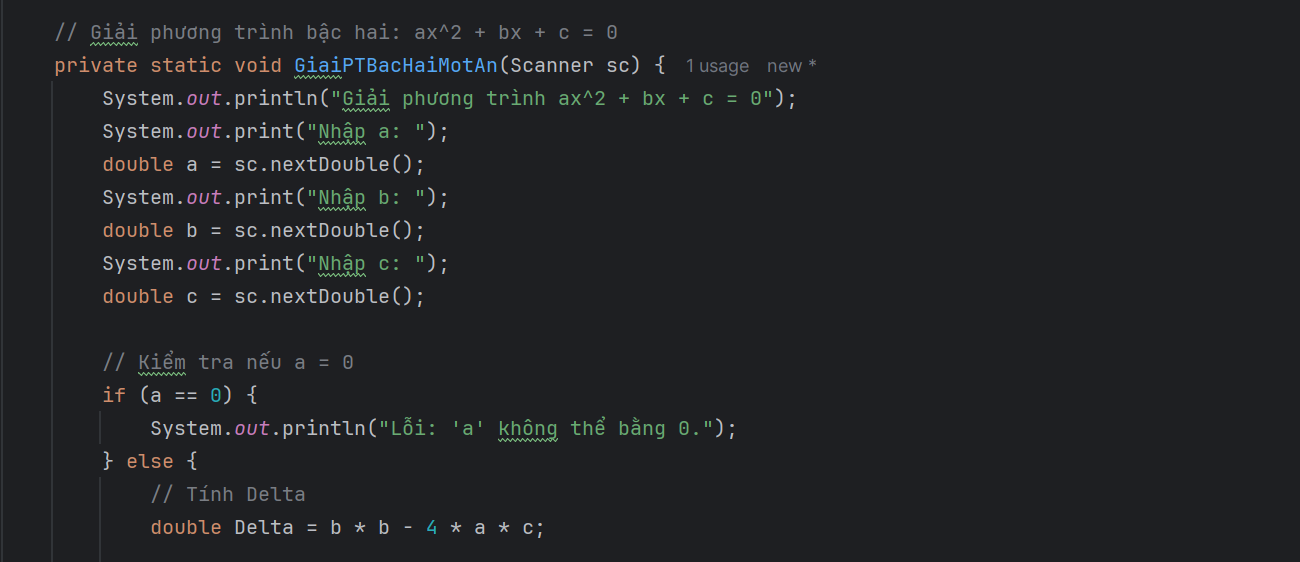


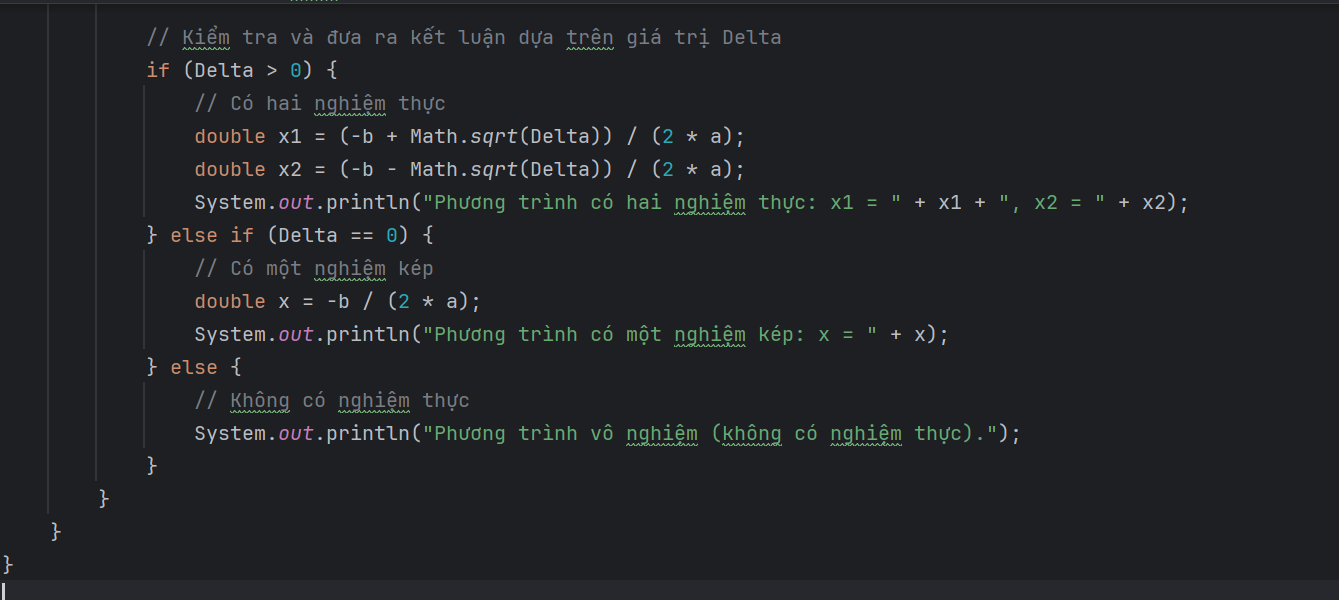




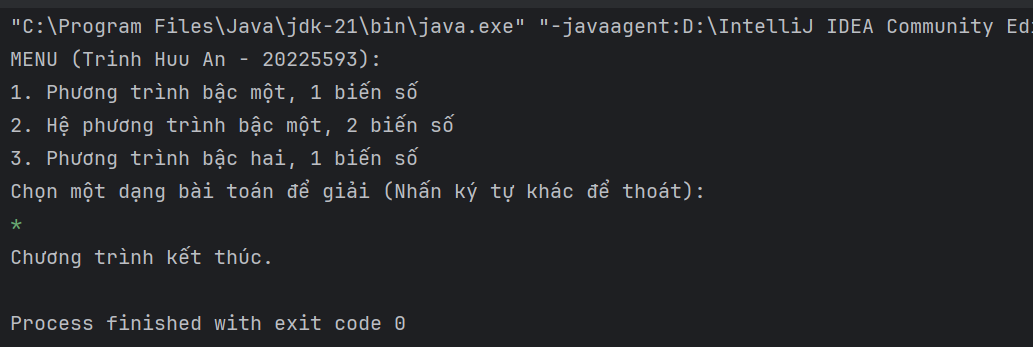


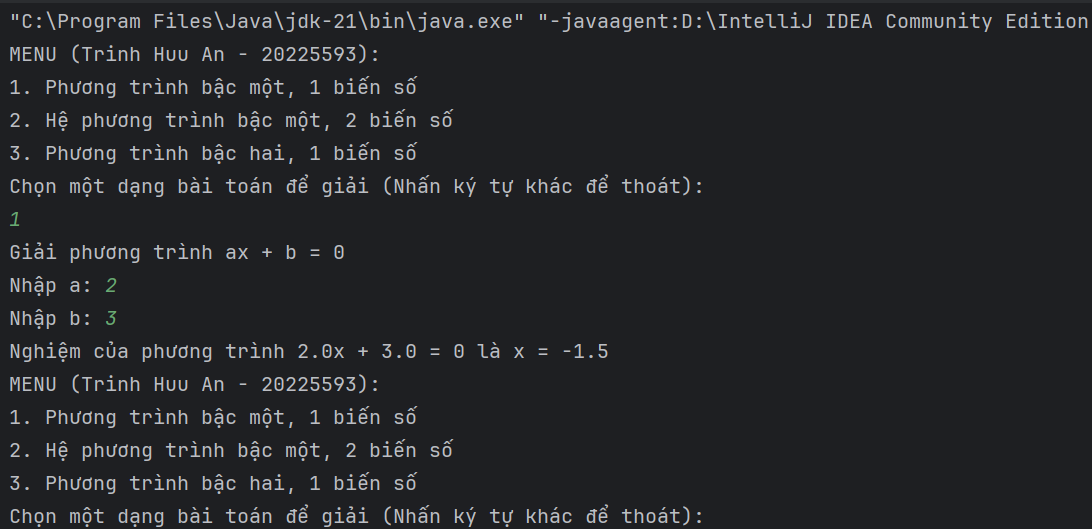


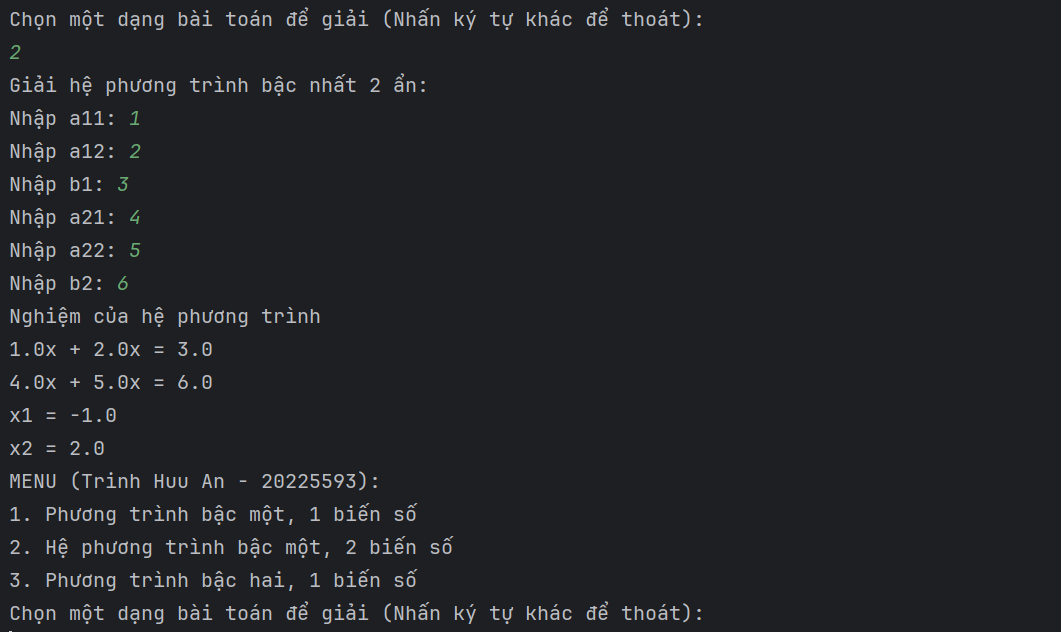


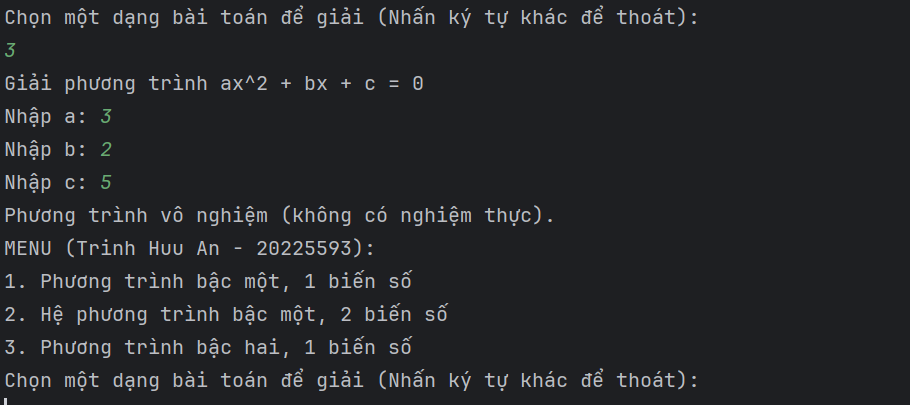


Hình : Mã nguồn Exercise\_2\_2\_6







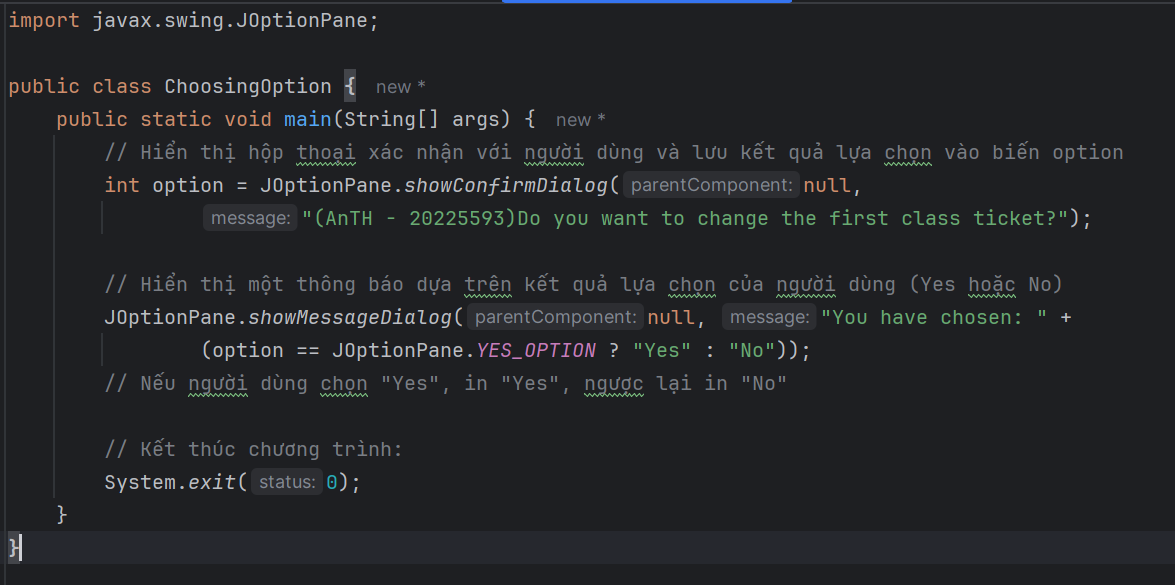


Hình : Kết quả Exercise\_2\_2\_6

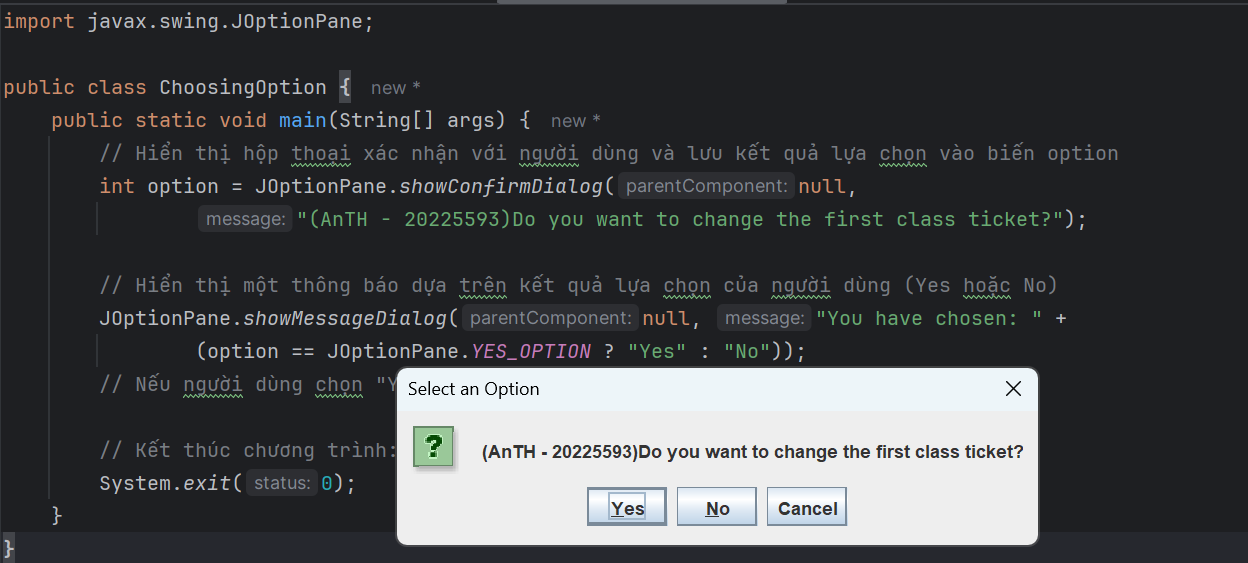
# Exercises

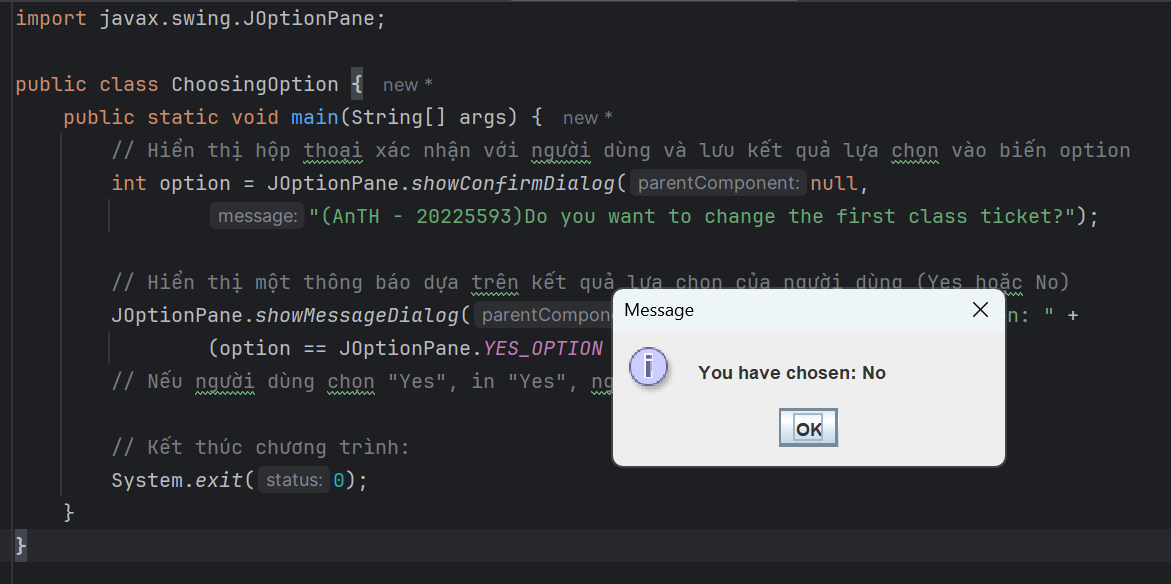
## Write, compile and run the ChoosingOption program:

.



Hình : Mã nguồn ChoosingOption

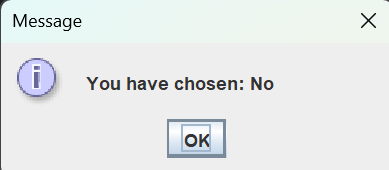




Hình : Kết quả ChoosingOption

Questions:

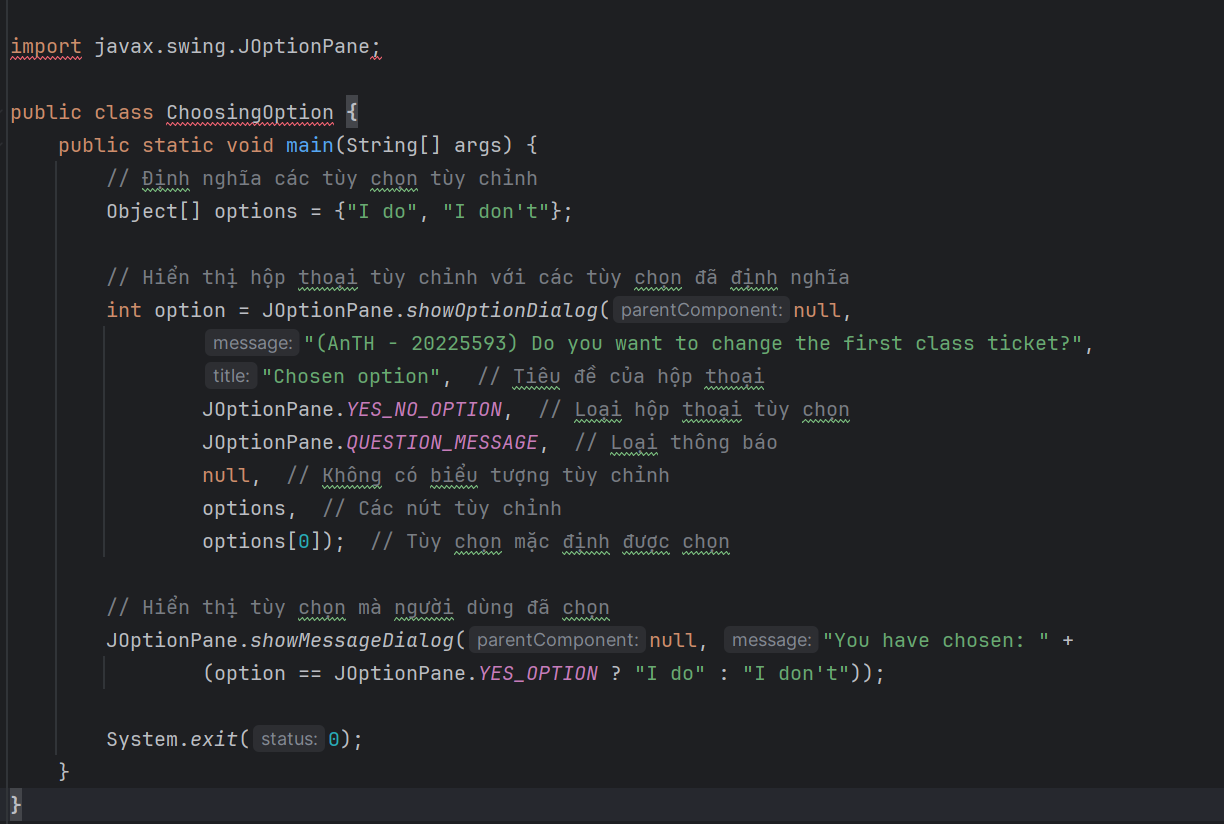
- What happens if users choose “Cancel”? Nếu chọn Cancel thì chương trình sẽ in ra thông báo:



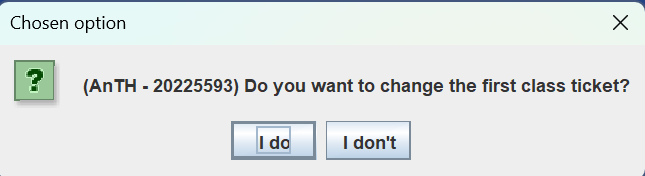
Hình : Kết quả chương trình ChoosingOption nếu chọn Cancel

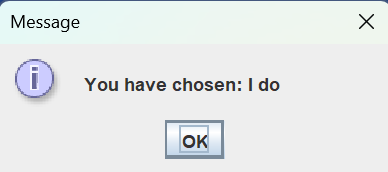
How to customize the options to users, e.g. only two options: “Yes” and “No”, OR “I do” and “I don’t” (Suggestion: Use Javadocs or using Eclipse/Netbean IDE help).

Ta cần sửa lại chương trình:



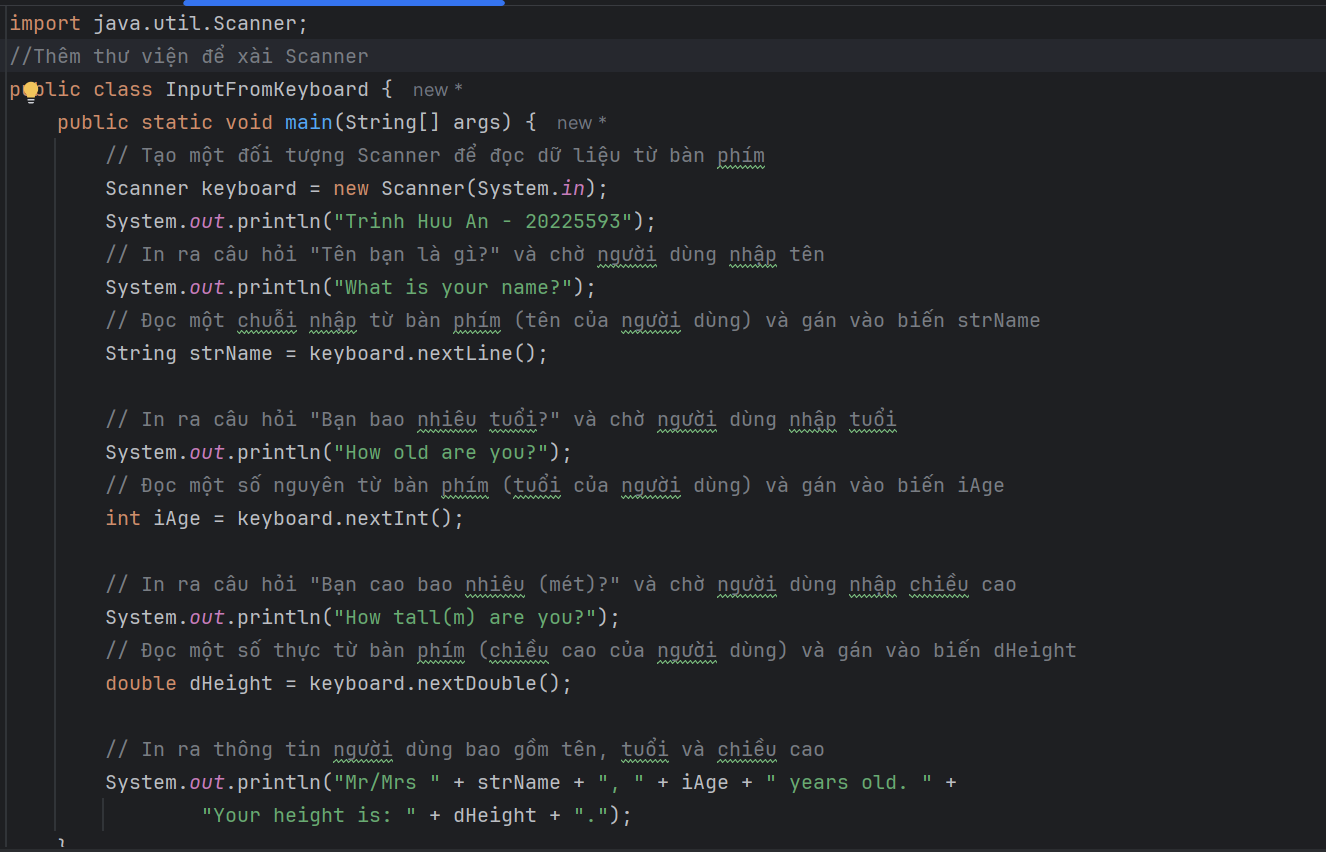
Hình : Mã nguồn cải tiến ChoosingOption



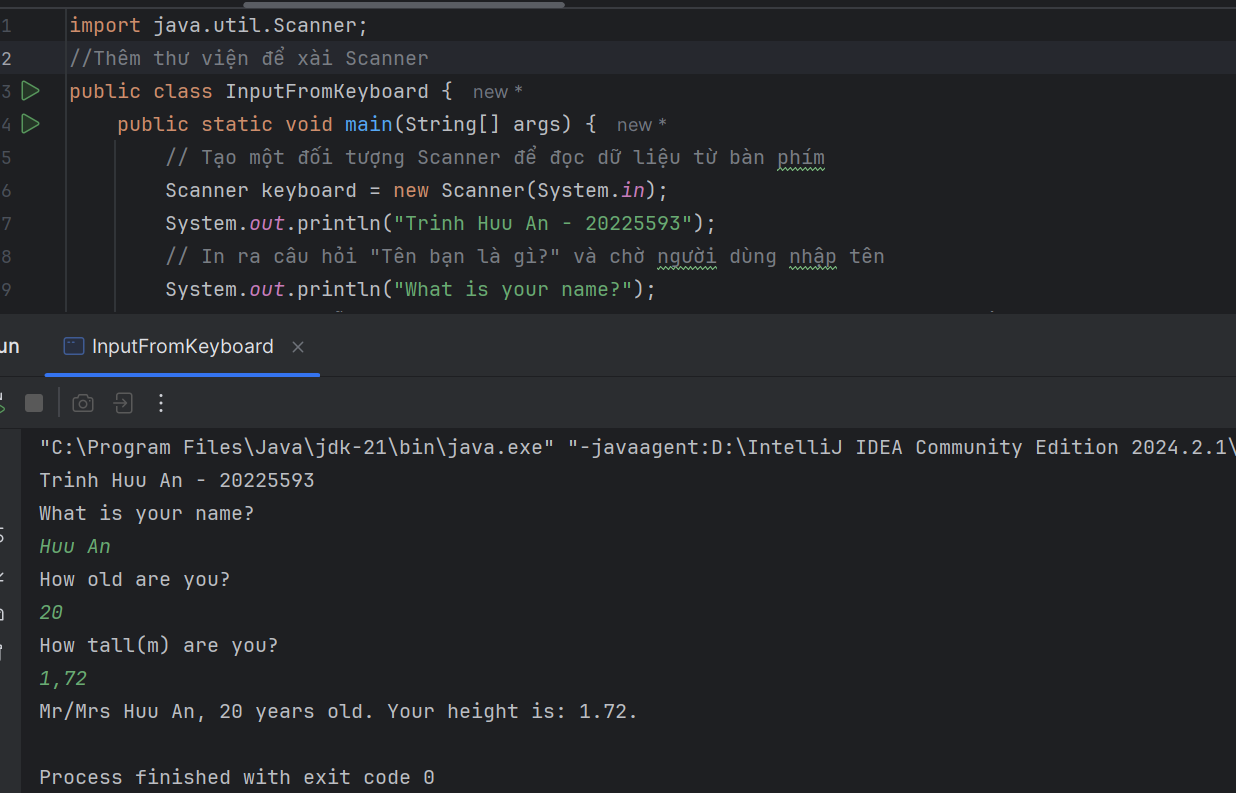


Hình : Kết quả chương trình cải tiến ChoosingOption

## Write a program for input/output from keyboard

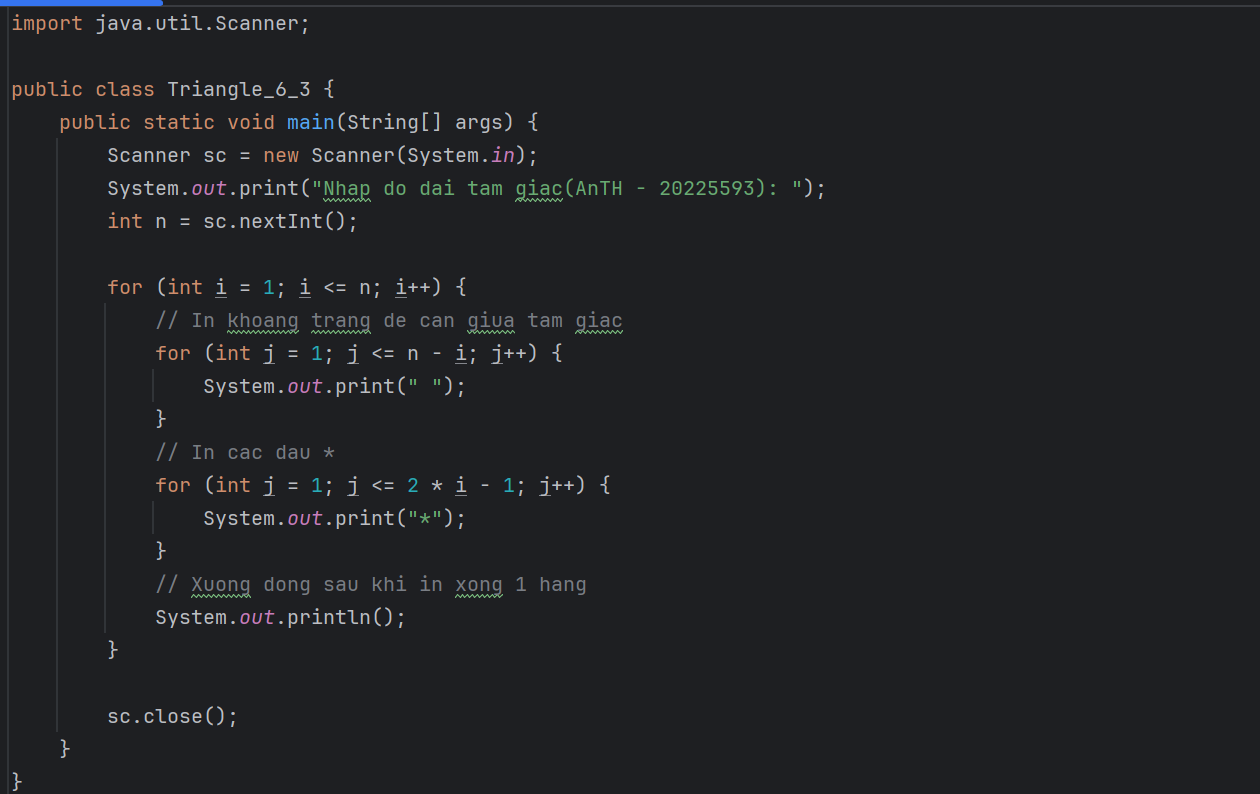


Hình : Mã nguồn InputFromKeyboard

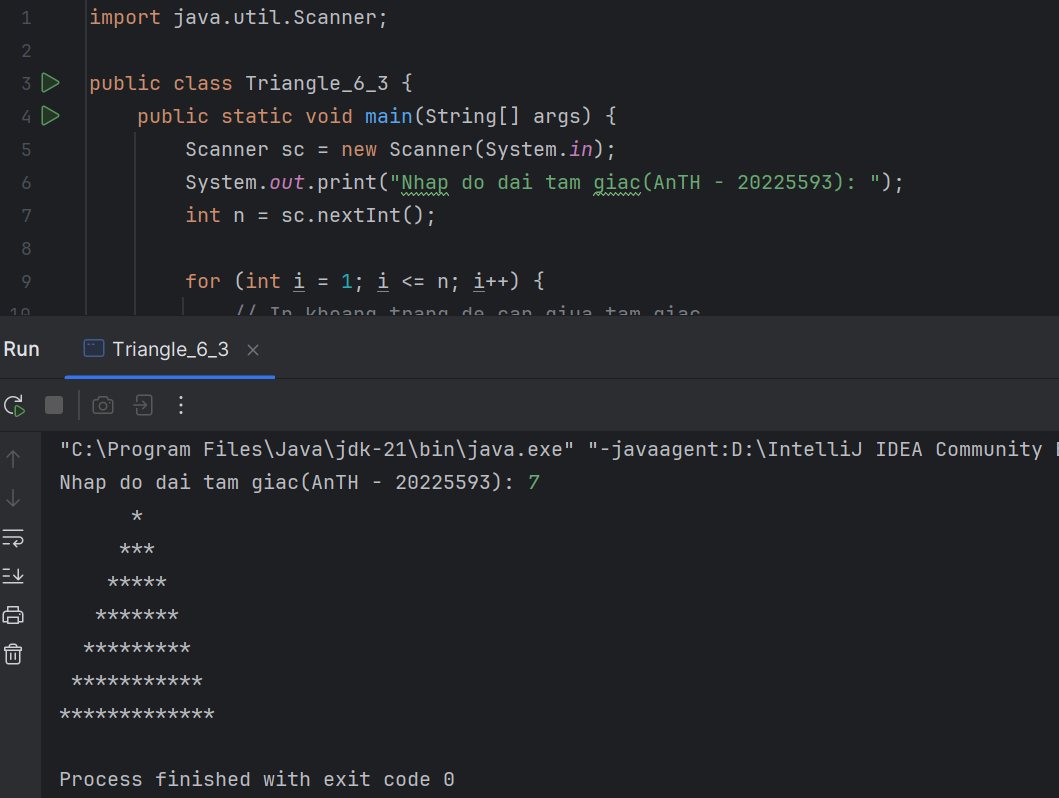


Hình : Kết quả InputFromKeyboard

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

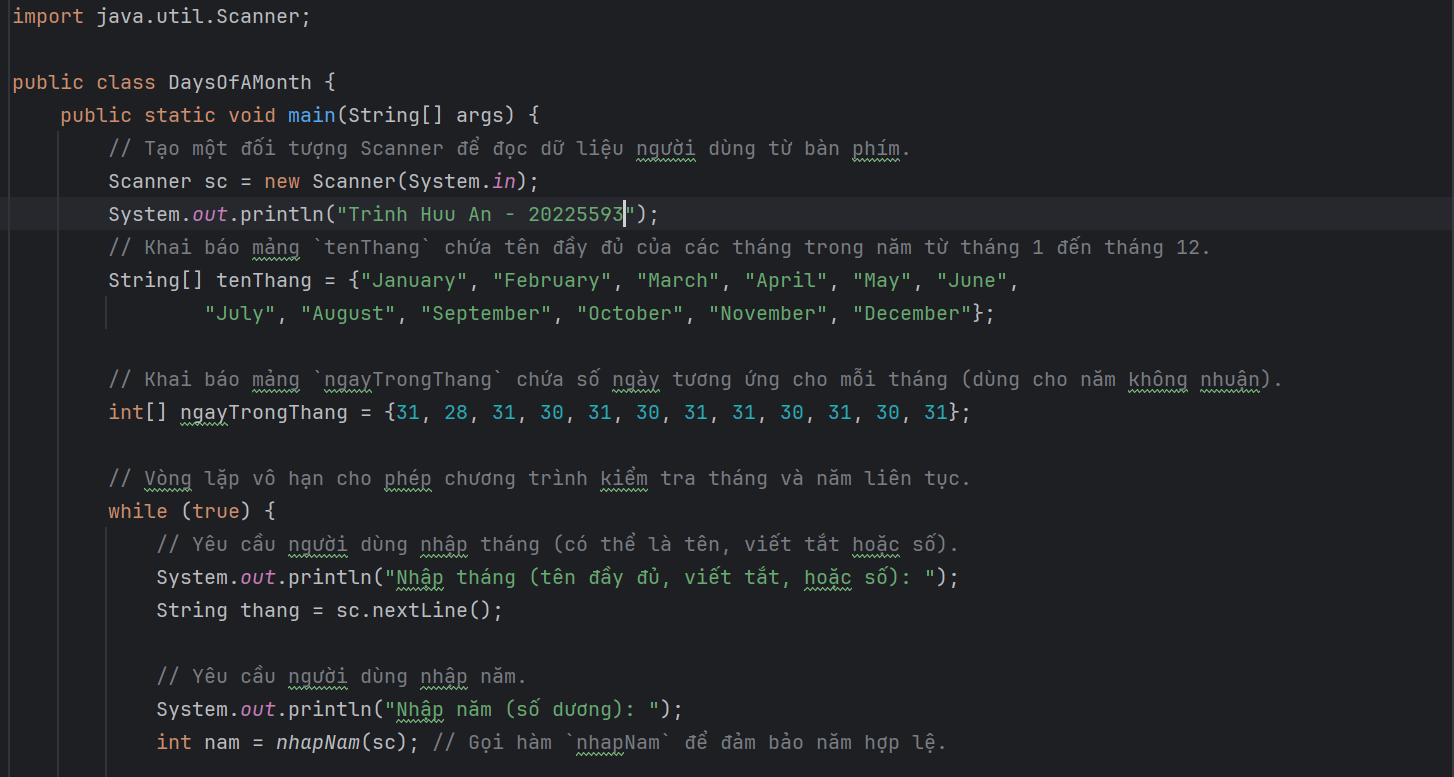


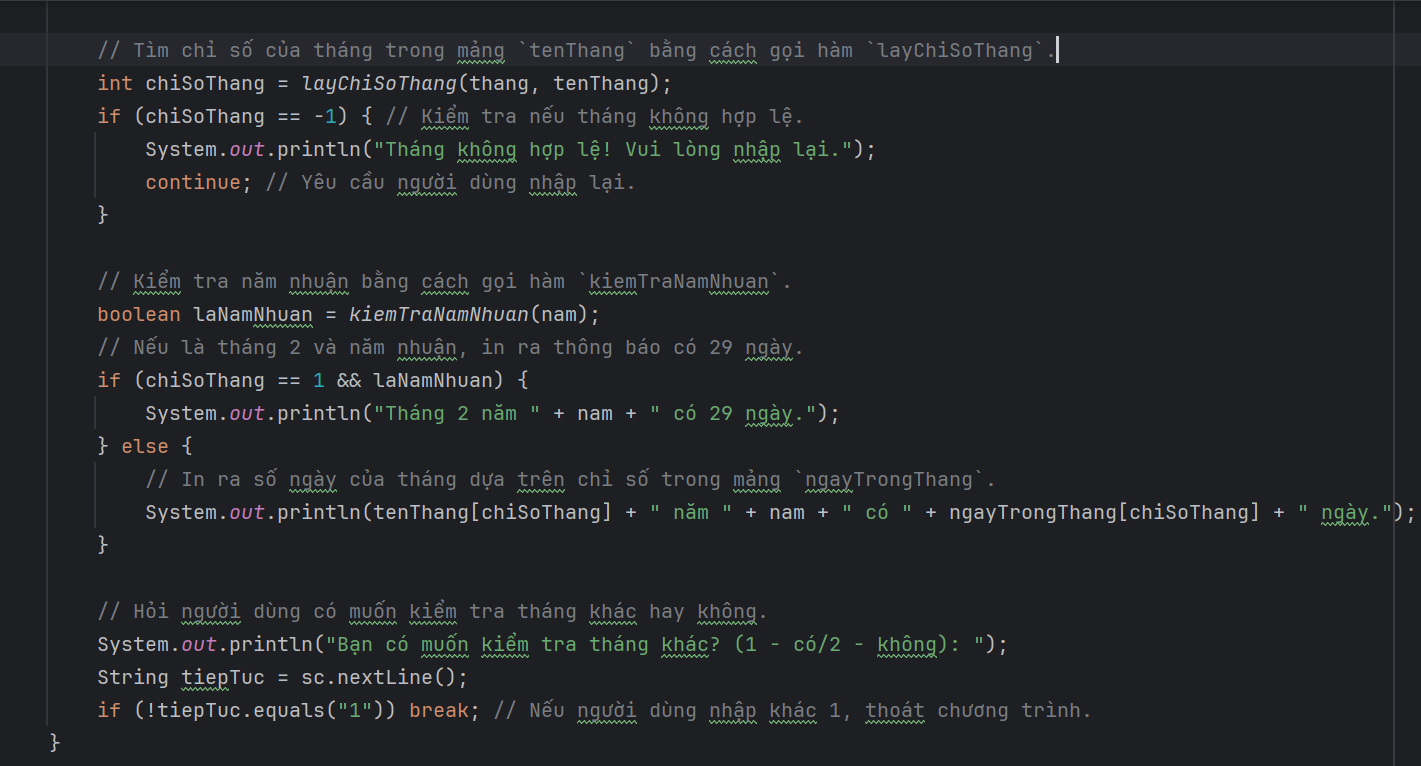
Hình : Mã nguồn Triangle\_6\_3

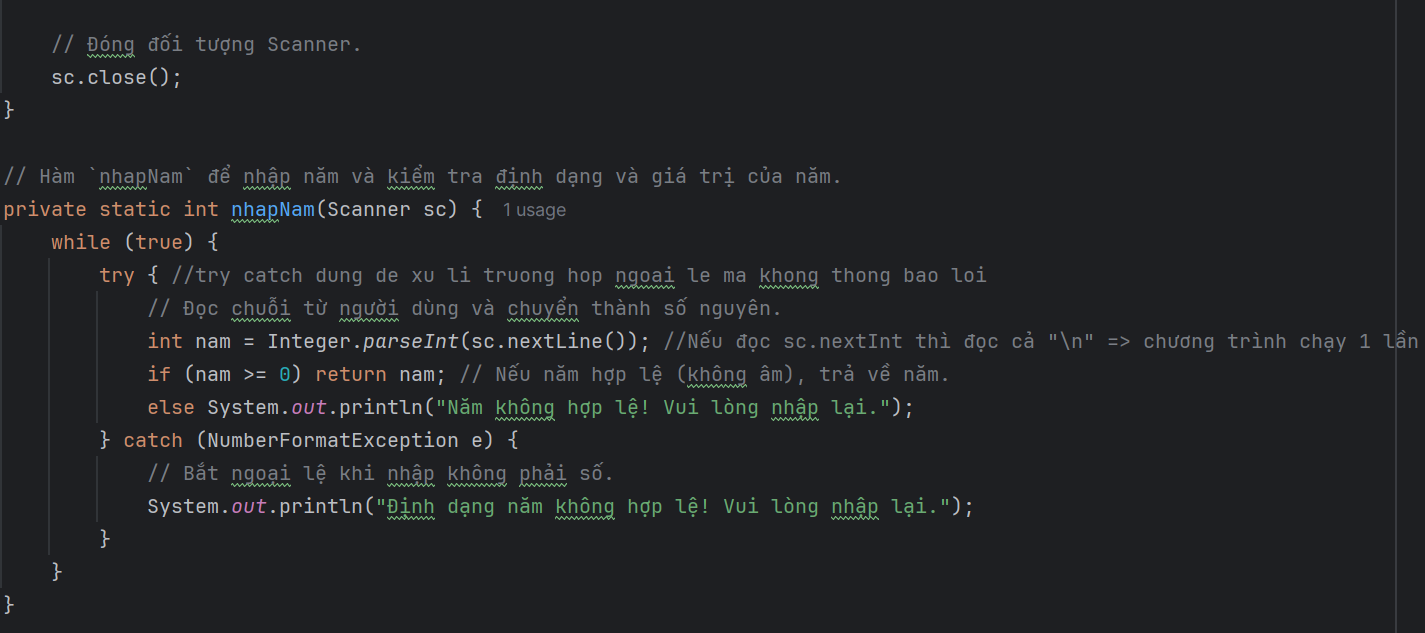


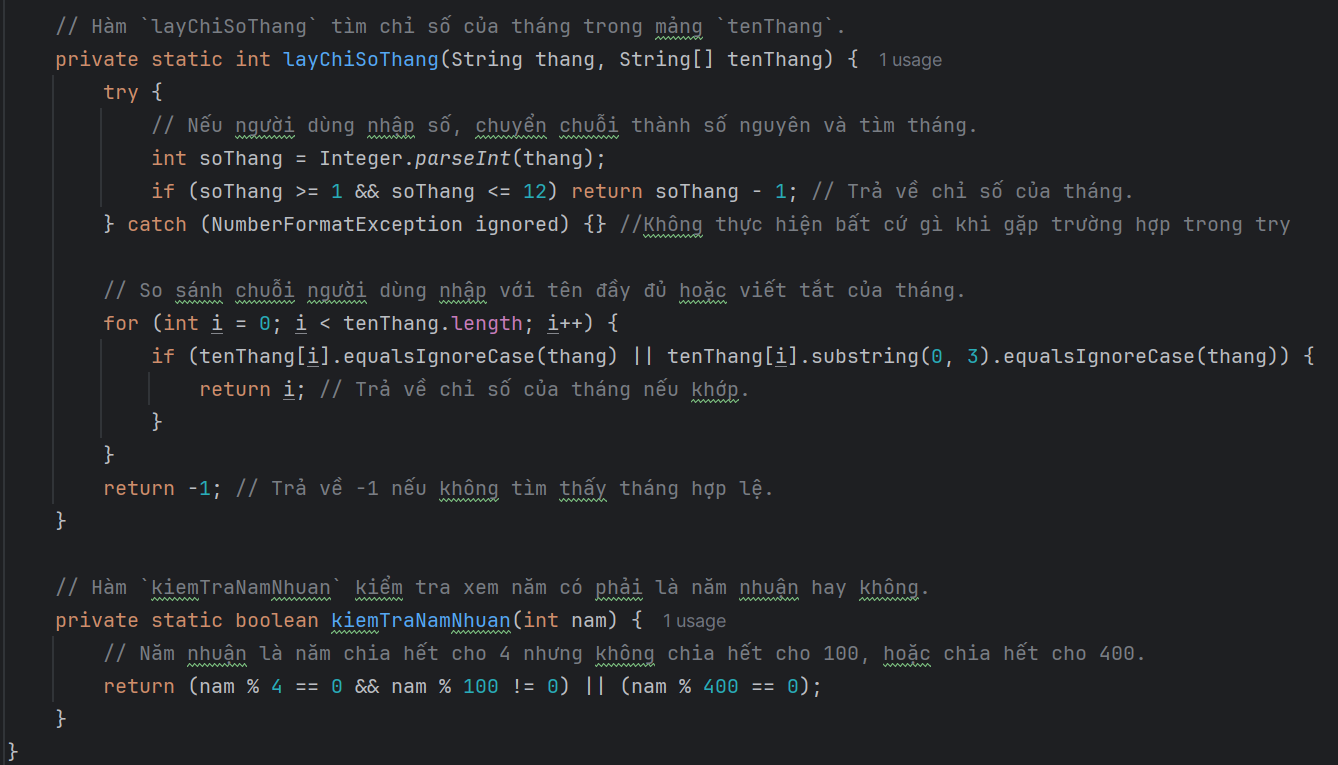
Hình : Kết quả Triangle\_6\_3

## 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.

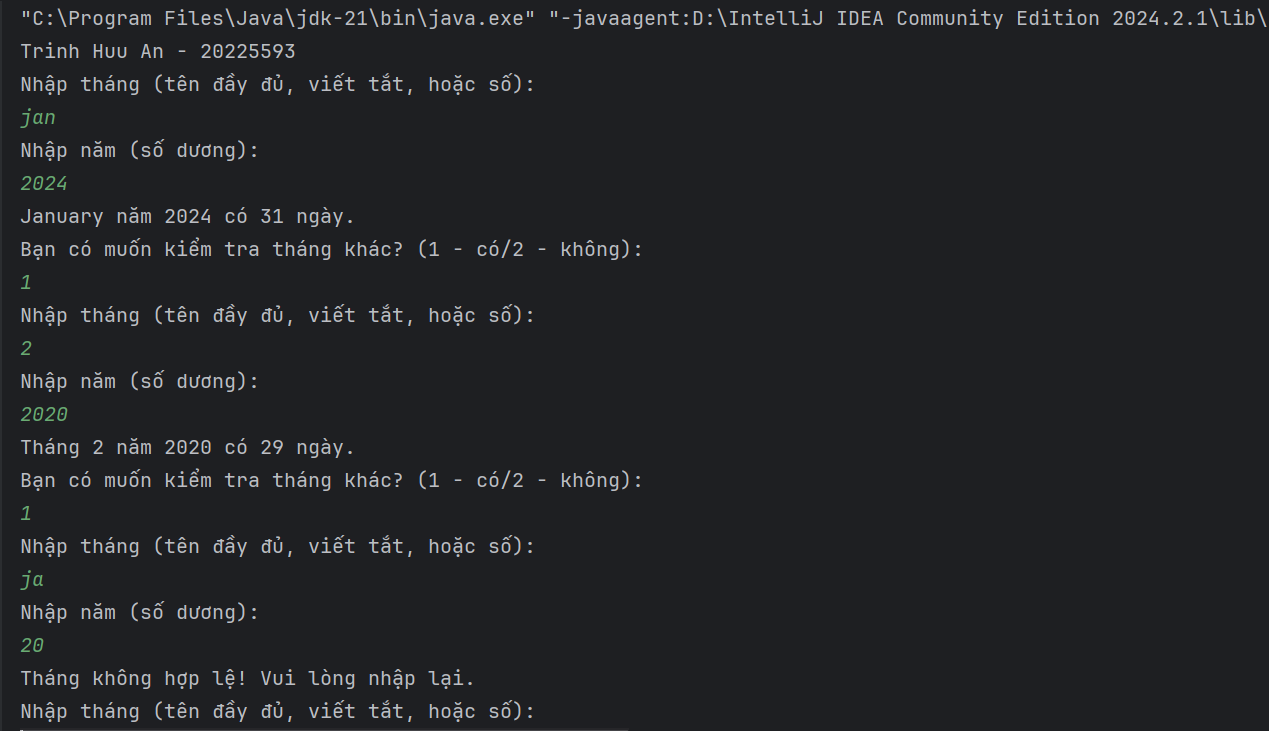


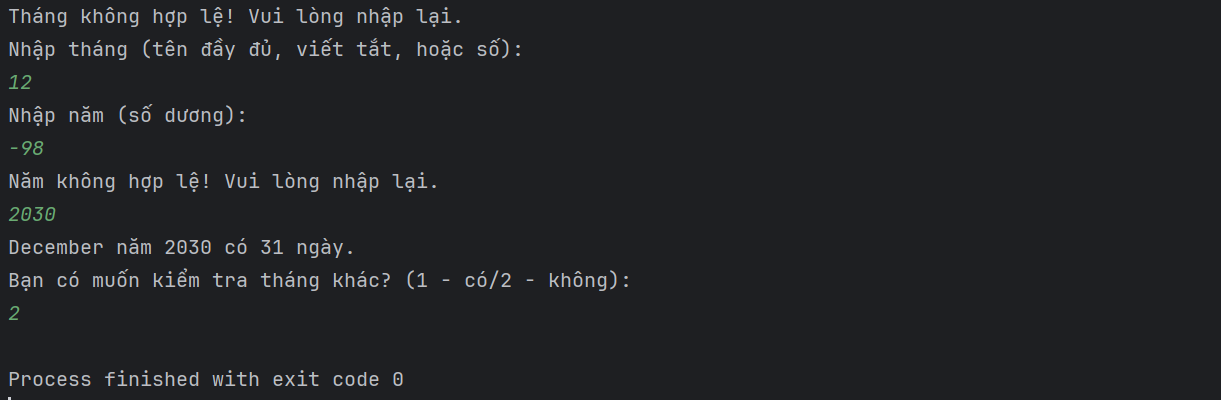






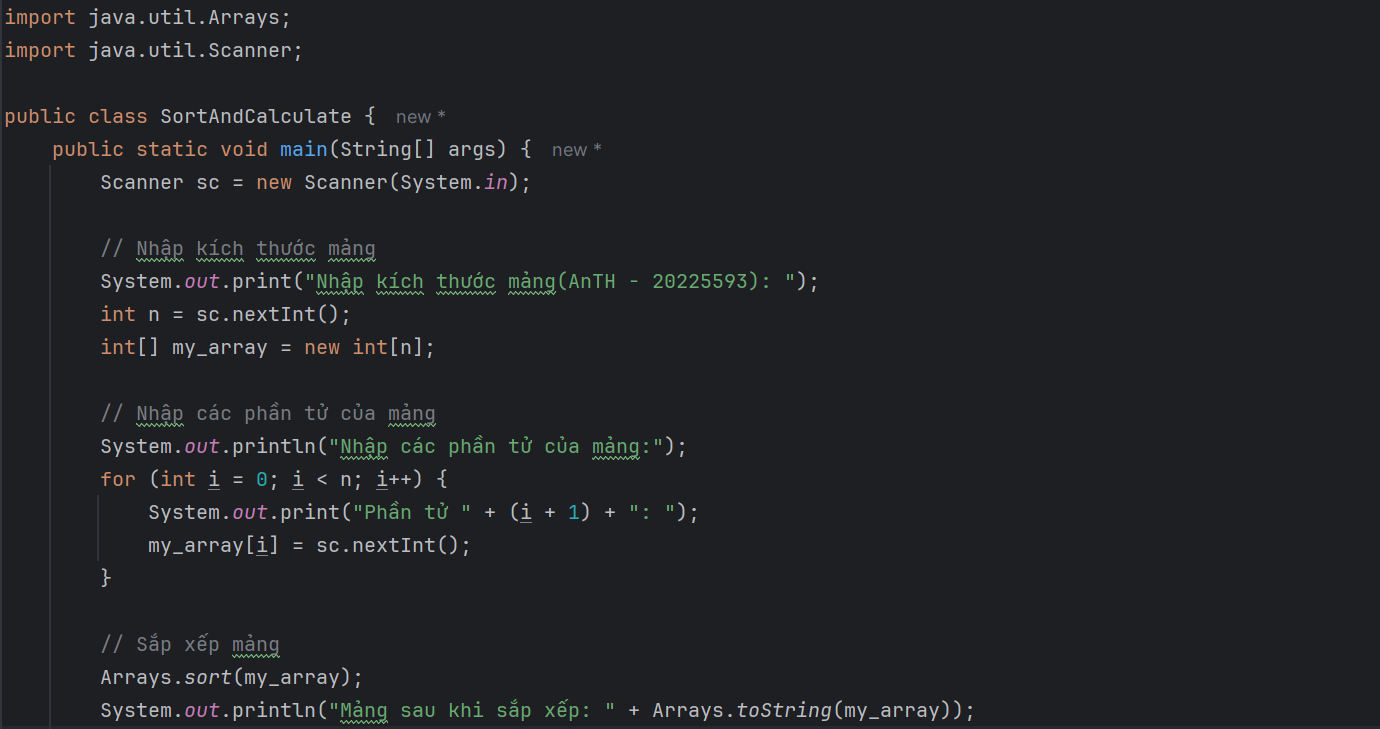
Hình : Mã nguồn DaysOfAMonth

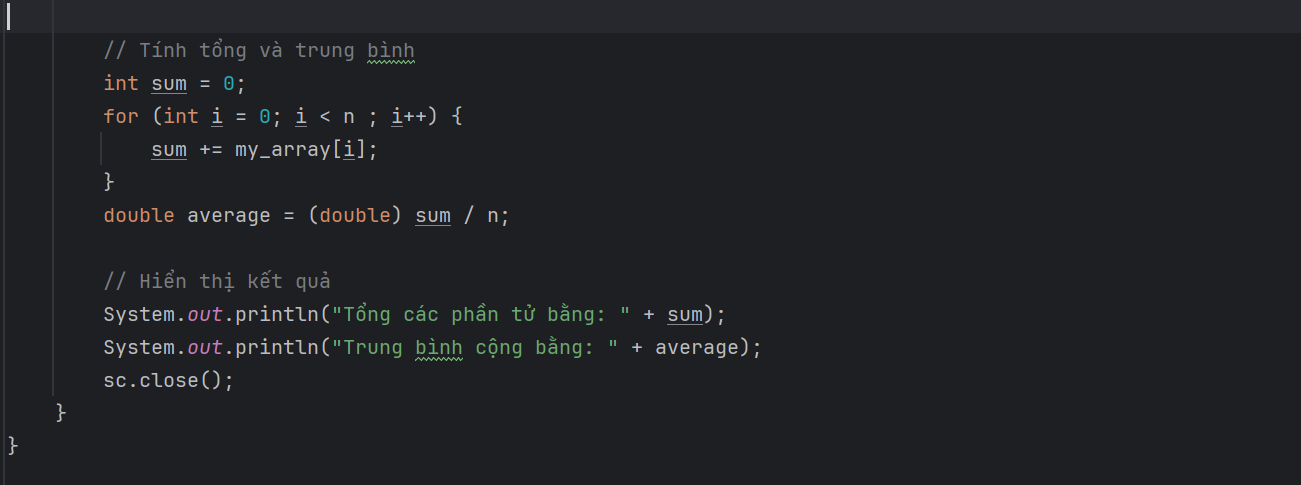




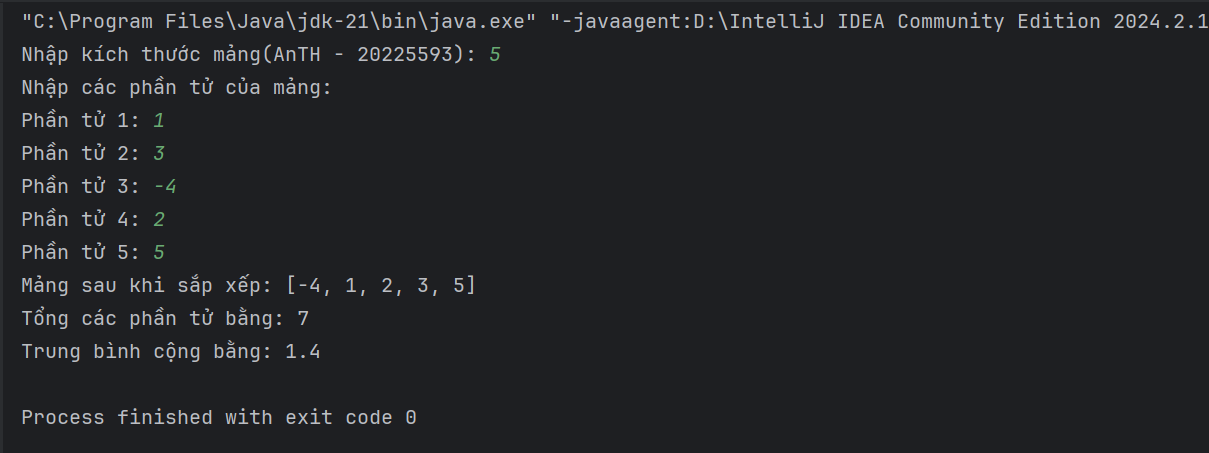
Hình : Kết quả DaysOfAMonth

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



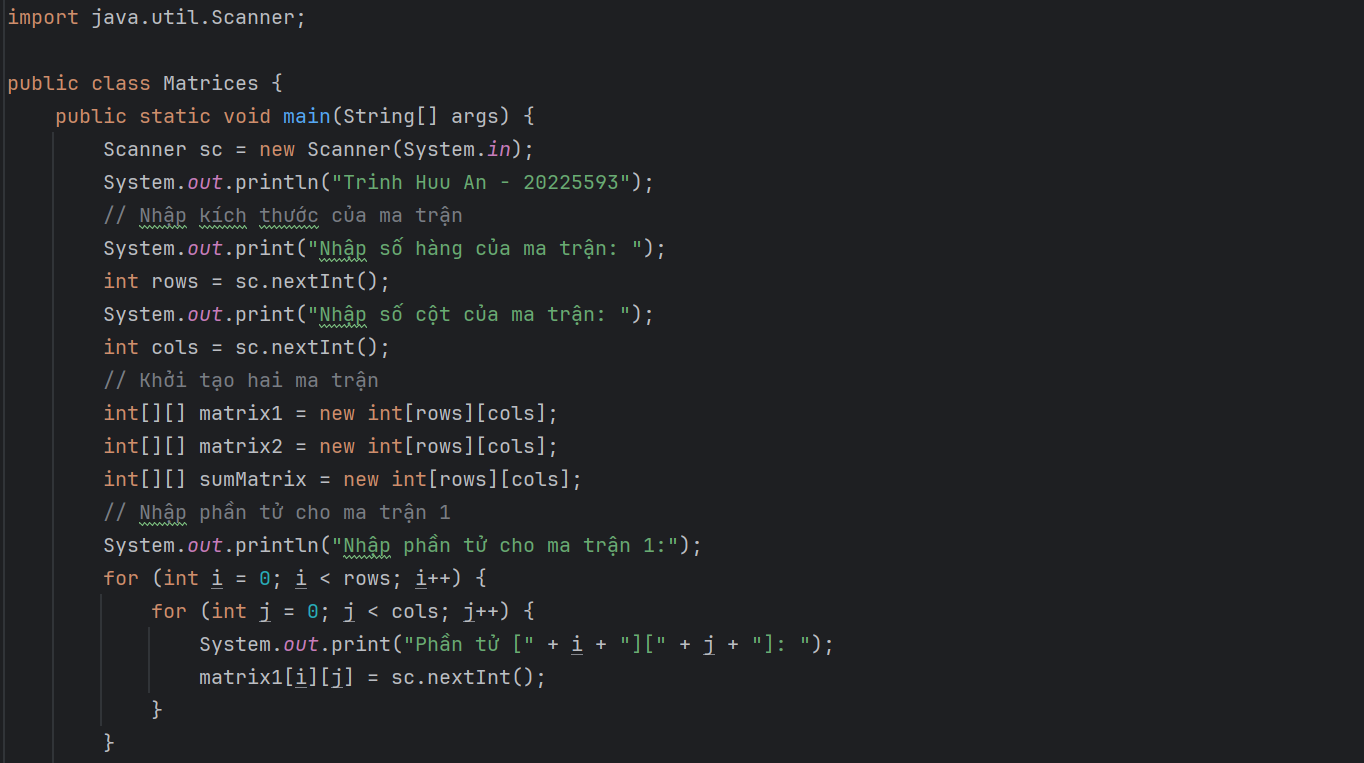


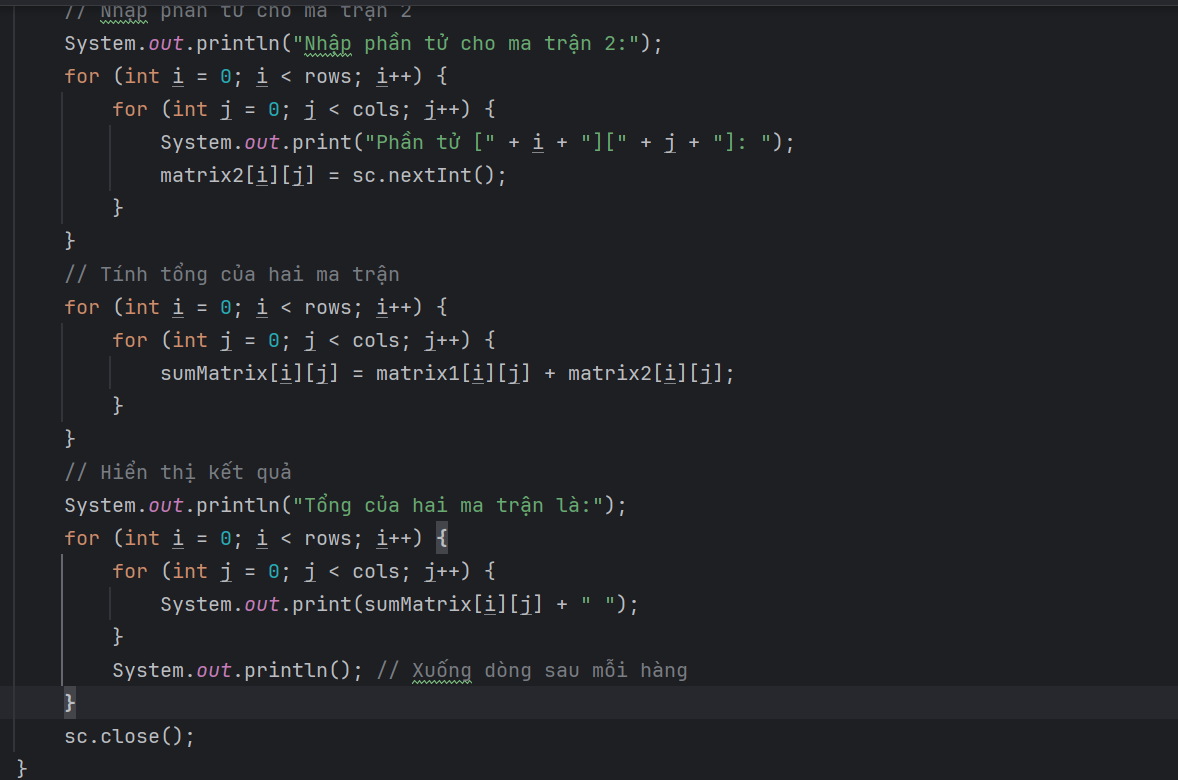
Hình : Mã nguồn SortAndCalculate



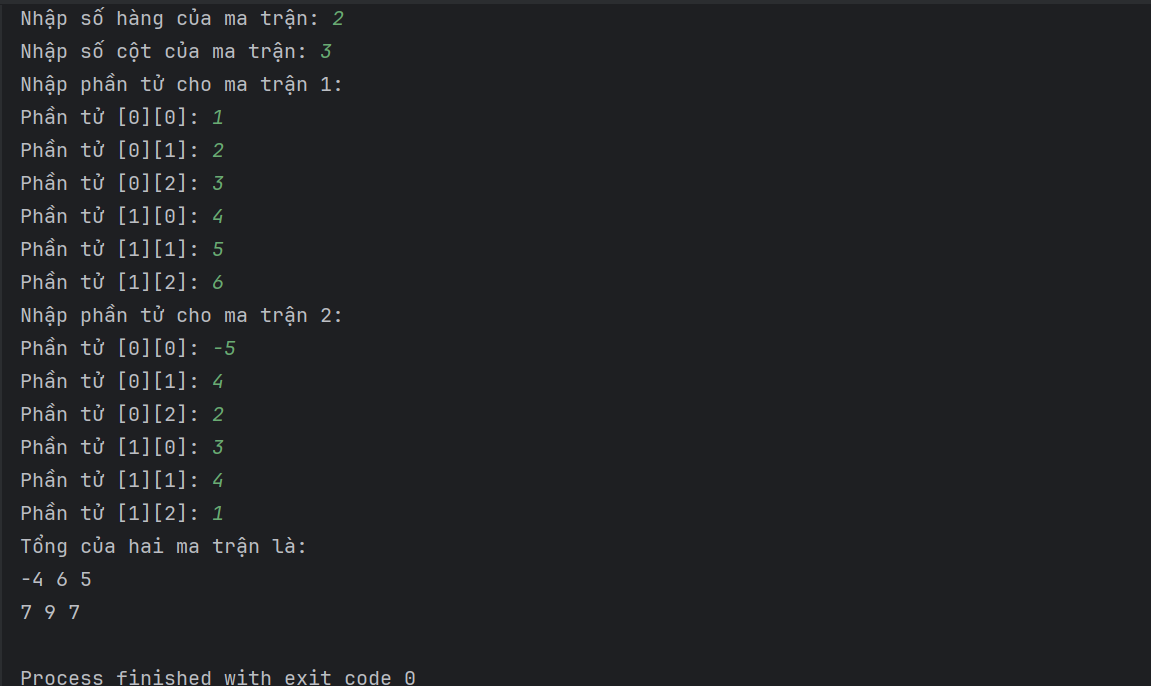
Hình : Kết quả SortAndCalculate

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





Hình : Mã nguồn Matrices



Hình : Kết quả Matrices