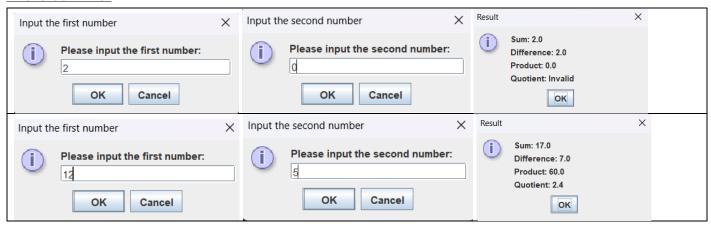
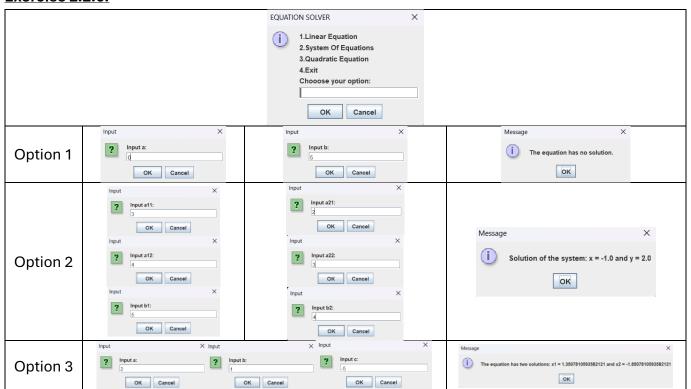
# LAB01 REPORT - 20235684 - NGUYỄN NGỌC DUNG

#### Exercise 2.2.5:



#### Exercise 2.2.6:



#### Exercise 6.1:

- 1. What happens if users choose "Cancel"?
- → The message dialog displays "You've chosen: No"

(Because the 'option' variable is set to JoptionPane.CANCEL\_OPTION, which has a value of 2. However the source code (JoptionPane.YES\_OPTION) just check for value 0 ("Yes"), and for other values (1- No, 2-Cancel) the program defaults to showing "No".)



Do you want to change to the first class ticket?

Select an Option

- 2. How to customize the options to users, e.g., only two options: "Yes" and "No", OR "I do" and "I don't"?
- → Using JoptionPane.showOptionDialog().

#### **Exercise 6.2:** Program for input from keyboard.

```
<terminated> B6_2_InputFromKeyBoard [Java Application]
What's your name?
Dung
How old are you?
20
How tall are you (m)?
1.5
Mrs/Ms. Dung, 20 years old.
Your height is 1.5 m.
```

### Exercise 6.3: Star Triangle

## **Exercise 6.4:** Display the number of days of a month

```
C:\00P\00P.Lab.20242.20235684.NguyenNgocDung\Lab01>java B6_4
Enter a month: Feb.
Enter a year: 2000
Number of days of the month: 29

C:\00P\00P.Lab.20242.20235684.NguyenNgocDung\Lab01>java B6_4
Enter a month: September
Enter a year: 99
Invalid input! Please enter again.
Enter a year: 1999
Number of days of the month: 30
```

#### **Exercise 6.5:** Sort a numeric array, and calculate the sum and average value of array elements.

```
C:\00P\00P.Lab.20242.20235684.NguyenNgocDung\Lab01>java B6_5
Enter n: 5
Enter array: 1789 2035 1899 1456 2013
Sorted array: 1456 1789 1899 2013 2035
Sum: 9192
Average: 1838.4
```

#### Exercise 6.6: Add two matrices of the same size

```
C:\OOP\OOP.Lab.20242.20235684.NguyenNgocDung\Lab01>java B6_6
Enter the number of rows: 4
Enter the number of columns: 5
Enter matrix 1:
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
Enter matrix 2:
-2 9 4 5 0
3 5 -6 2 -1
8 -1 -6 2 4
-8 3 0 1 1
Result:
-1 11 7 9 5
9 12 2 11 9
19 11 7 16 19
8 20 18 20 21
```