BÁO CÁO THỰC HÀNH LAB 1 LẬP TRÌNH HƯỚNG ĐỐI TƯỢNG

The Very First Java Programs

2.2.1 Write, compile the first Java application:

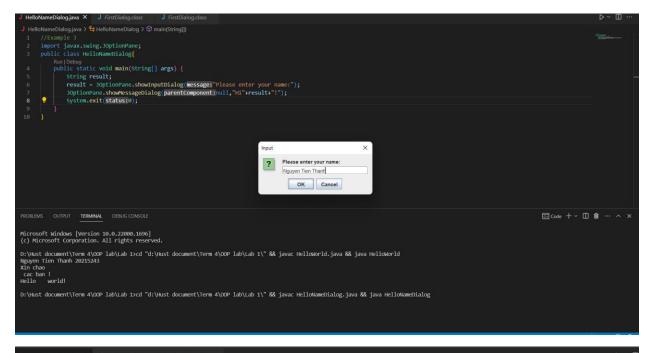
```
1 //Example 1: HelloWorld.java
2 //Text-printing program
3 public class HelloWorld {
4
50 public static void main(String args[]){
6     System.out.println("Xin chao \n cac ban!");
7     System.out.println("Hello \t world!");
8
9 } // end of method main
10 }
```

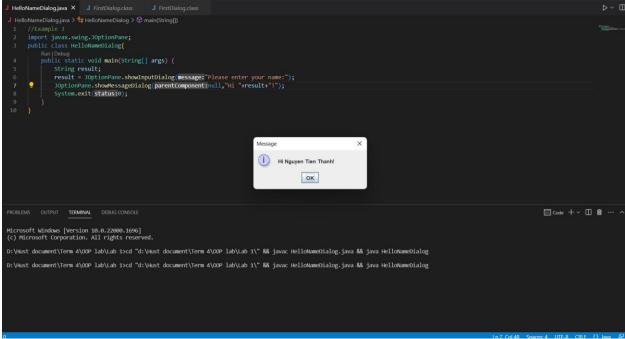
2.2.2 Write, compile the first dialog Java program

```
1 // Example 2: FirstDialog.java
2 import javax.swing.JOptionPane;
3 public class FirstDialog{
4  public static void main(String[] args){
5     JOptionPane.showMessageDialog(null, "Hello world! How are you?");
6     System.exit(0);
7  }
8 }
```

2.2.3 Write, compile the first input dialog Java application

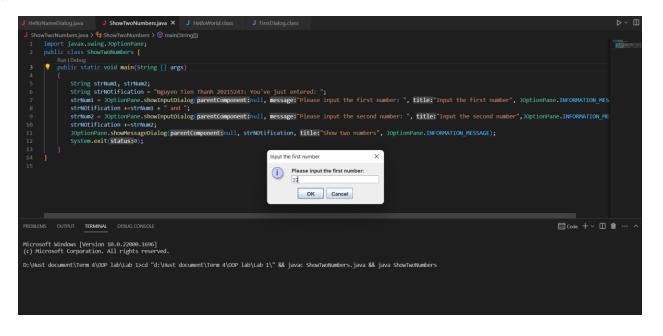
```
1 // Example 3: HelloNameDialog.java
2 import javax.swing.JOptionPane;
3 public class HelloNameDialog{]
4© public static void main(String[] args){
5    String result;
6    result = JOptionPane.showInputDialog("Please enter your name:");
7    JOptionPane.showMessageDialog(null, "Hi "+ result + "!");
8    System.exit(0);
9    }
10 }
```

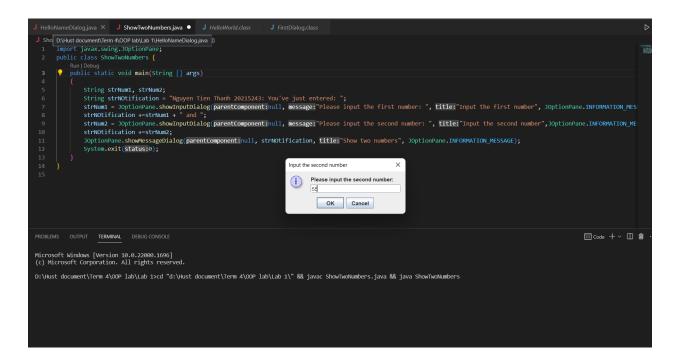


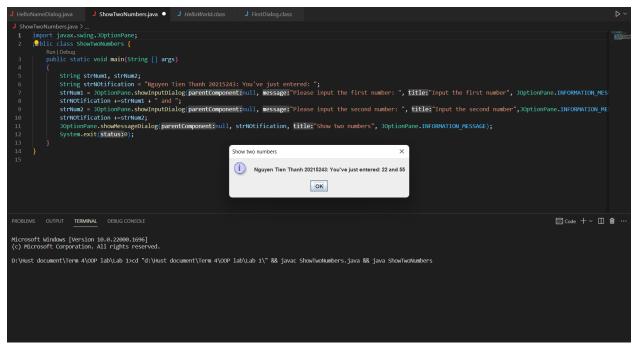


2.2.4 Write, compile, and run the following example:

```
1 // Example 5: ShowTwoNumbers.java
 2 import javax.swing.JOptionPane;
 3 public class ShowTwoNumbers {
     public static void main(String[] args){
       String strNum1, strNum2;
 5
       String strNotification = "You've just entered: ";
 6
 7
 8
       strNum1 = JOptionPane.showInputDialog(null,
                    "Please input the first number: ","Input the first number",
9
                    JOptionPane.INFORMATION_MESSAGE);
10
       strNotification += strNum1 + " and ";
11
12
13
       strNum2 = JOptionPane.showInputDialog(null,
                    "Please input the second number: ", "Input the second number",
14
                    JOptionPane.INFORMATION_MESSAGE);
15
       strNotification += strNum2;
16
17
       JOptionPane.showMessageDialog(null,strNotification,
18
19
                    "Show two numbers", JOptionPane. INFORMATION_MESSAGE);
20
       System.exit(0);
21
22 }
```







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

<u>Notes</u>

- To convert from String to double, you can use
 double num1 = Double.parseDouble(strNum1)
- Check the divisor of the division

```
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```

2.2.5 Write a program to solve:

Kết quả:

- The first-degree equation:

```
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```

- The system of first-degree equations:

- The second-degree equation with one variable:

```
Microsoft Windows [Version 10.0.22000.1696]
(c) Microsoft Corporation. All rights reserved.

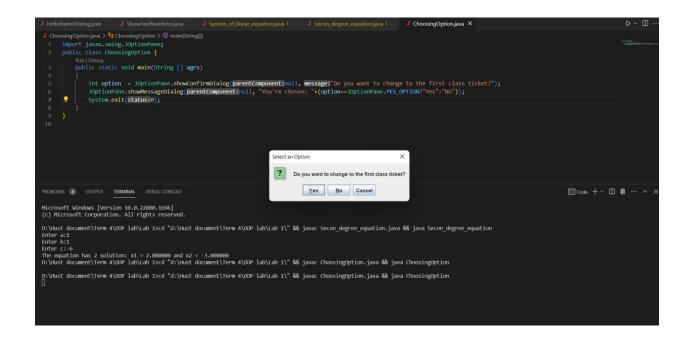
D:\Hust document\Term 4\00P lab\Lab 1>cd "d:\Hust document\Term 4\00P lab\Lab 1\" && javac Secon_degree_equation.java && java Secon_degree_equation.finter a:1
Enter a:1
Enter b:1
Enter c:-6
The equation has 2 solution: x1 = 2.000000 and x2 = -3.000000
D:\Hust document\Term 4\00P lab\Lab 1>
```

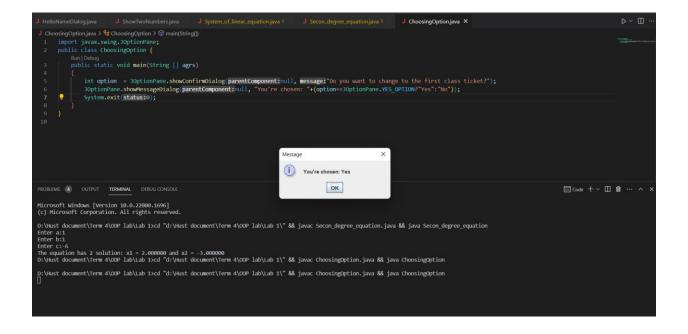
6.1 Write, compile and run the ChoosingOption program:

rigure 25. save and Launch

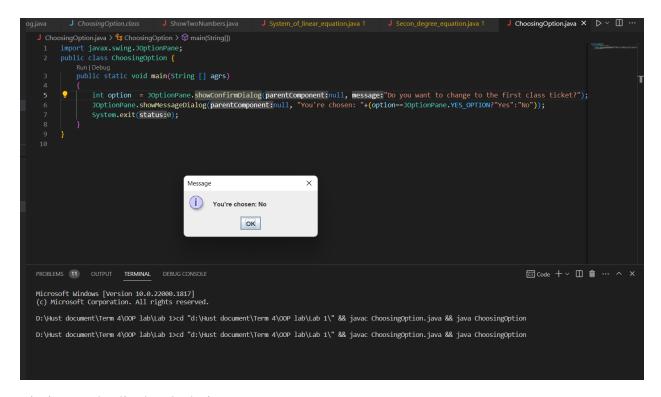
Questions:

- What happens if users choose "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).





- If we choose "Cancel", we will see the message: You're chosen "No".

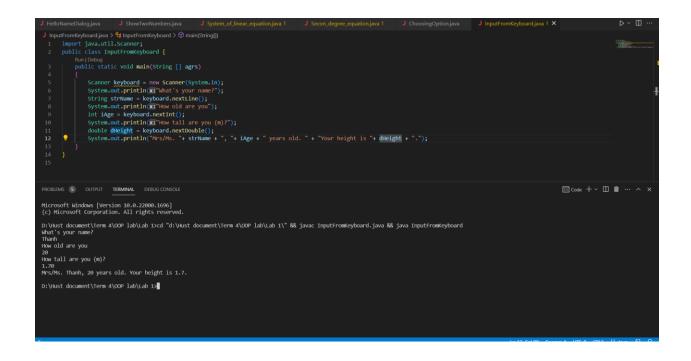


Fix it to only display 2 choices:



6.2 Write a program for input/output from keyboard:

```
Figure 24. Kun Application (2)
  1 import java.util.Scanner;
  2 public class InputFromKeyboard{
        public static void main(String args[]){
4
             Scanner keyboard = new Scanner(System.in);
  5
 6
           System.out.println("What's your name?");
 7
            String strName = keyboard.nextLine();
          System.out.println("How old are you?");
 8
 9
            int iAge = keyboard.nextInt();
        int iAge = keyboard.nextInt();
System.out.println("How tall are you (m)?");
 10
 11
            double dHeight = keyboard.nextDouble();
 12
 13
            //similar to other data types
 14
            //nextByte(), nextShort(), nextLong()
 15
            //nextFloat(), nextBoolean()
 16
             System.out.println("Mrs/Ms. " + strName + ", " + iAge + " years old. "
17
18
                                  + "Your height is " + dHeight + ".");
 19
20
        }
 21 }
🖹 Markers 🔲 Properties 🎋 Servers 縫 Data Source Explorer 🚡 Snippets 🧖 Problems 📮 Console 🛭 🔗 Searc
```



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

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.

```
J ShowNewOrkumbersjava J System.coLinear.equationjava 1 J Secon_degree_equationjava 1 J ChoosingOptionjava J ImputiromKoyboardjava 1 J Nianglejava 1 J day_col_monthjava 3 X D ∨ □ ···

J day_col_monthjava 2 day_col_month > ② main(String[])

1 import java.util.*;

2 import java.lang_eodel_util.Elementscanners;

public class day_of_month

5 public static void main(String [] agrs)

{

Scanner sc = new Scanner(System.in);

String month;

int day=0;

String temp;

do

(

System.out.print(Si*Enter year:*);

year = sc.nextInt();

temp = Integer.tostring(year);

if (yearce || temp.length()!=4) (

System.out.print(Ni*Imvalid year! Try again!*);

} hille(yearce|| temp.length()!=4);

String c = sc.nextLine();

do

(

System.out.print(Si*Enter month;*);

sworth = sc.nextLine();
```

```
switch(month)

( case "January": case "Jan": case "Jan": case "1": case "March": case "Mar.": case "Aug.": case "Aug.": case "Sep": case "Sep": case "Jan": case "Sep": case "Jan": case "Oct.": case "Jan": case
```

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

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

```
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