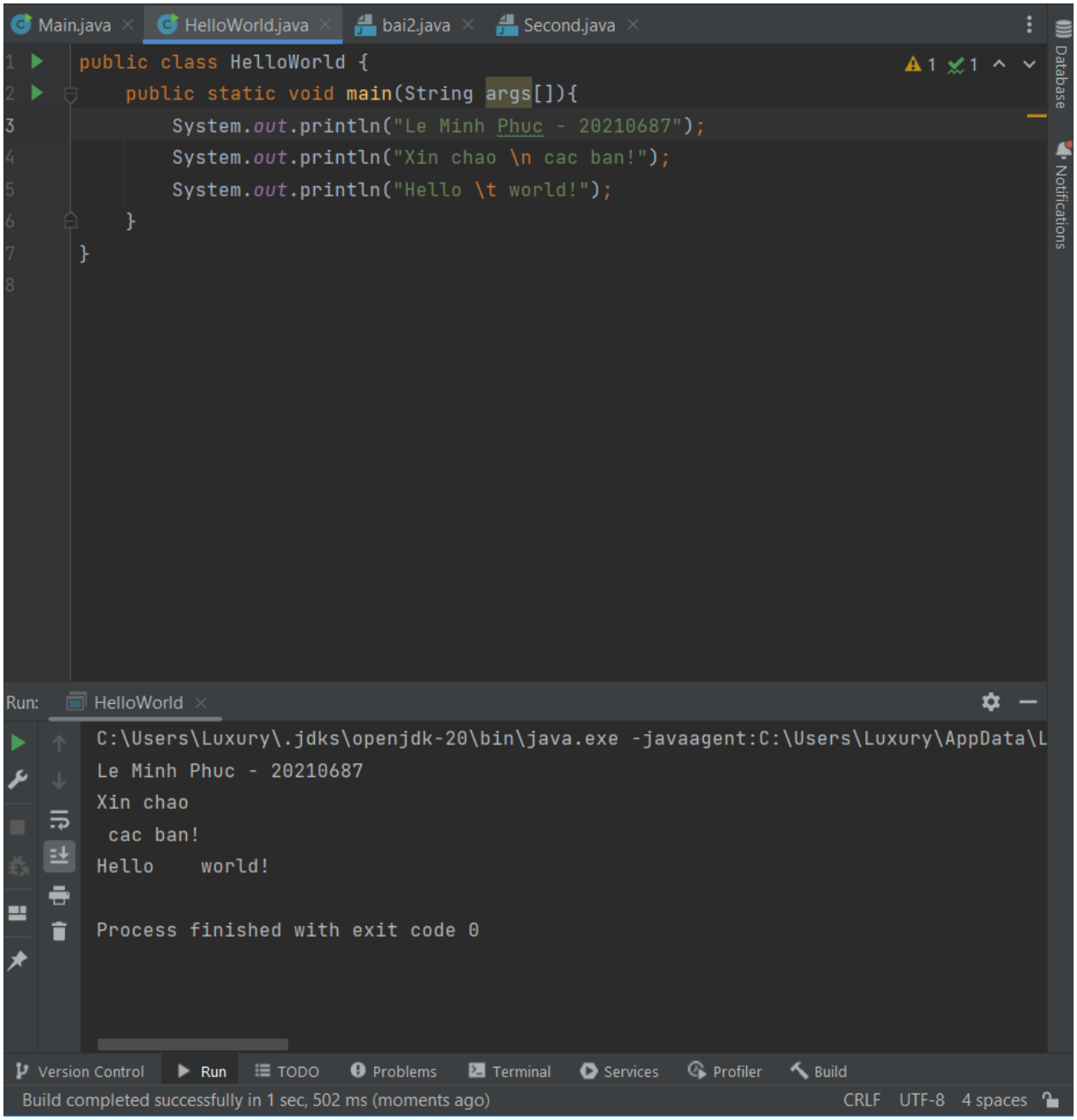
BÁO CÁO THỰC HÀNH LAB 1
LẬP TRÌNH HƯỚNG ĐỐI TƯỢNG

The Very First Java Programs

2.2.1 Write, compile the first Java application:

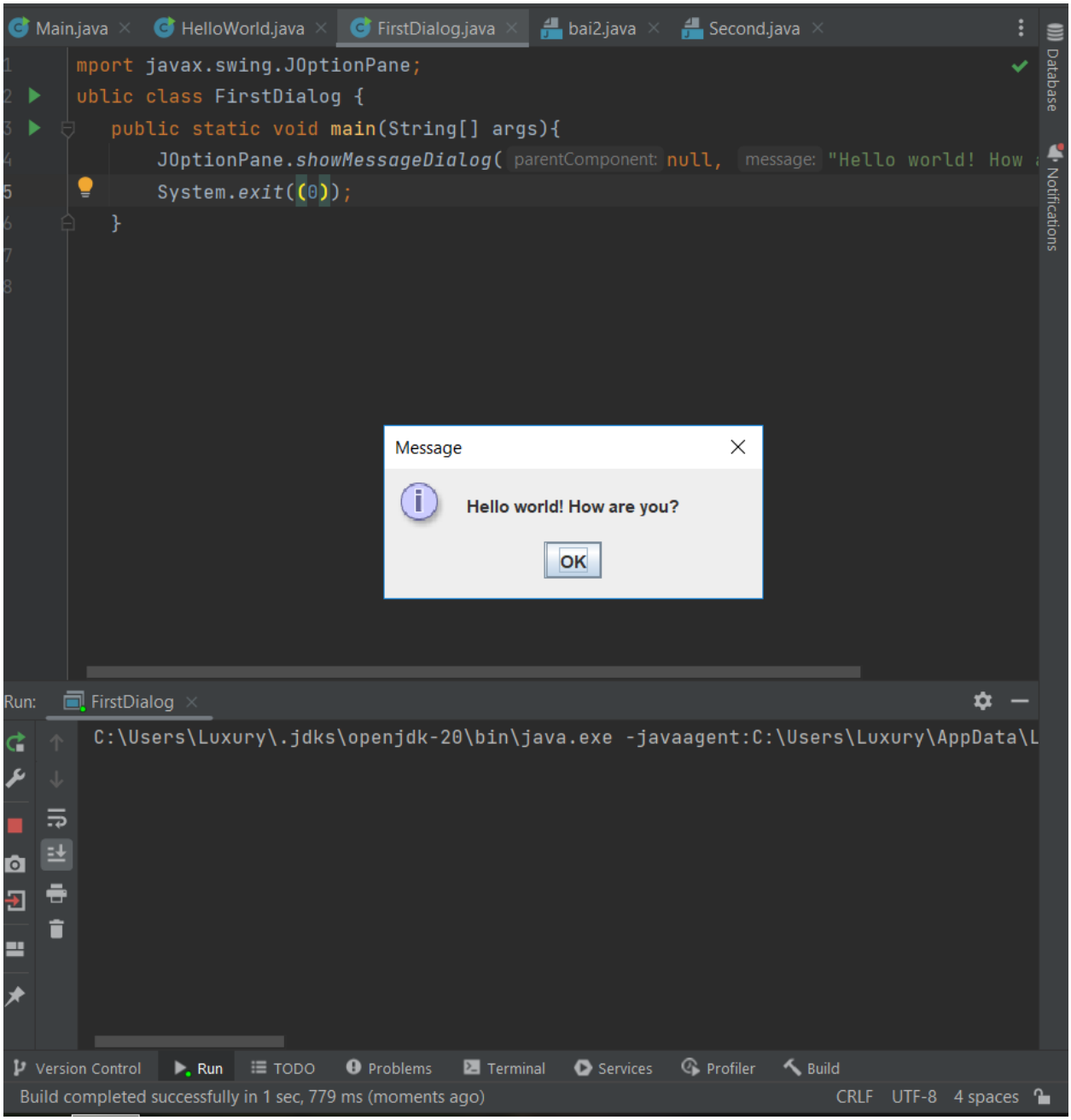
```java
//Example 1: HelloWorld.java
//Text-printing program
public class HelloWorld {

   public static void main(String args[]){
        System.out.println("Xin chao \n cac ban!");
        System.out.println("Hello \t world!");

   } // end of method main
}
```

Kết quả



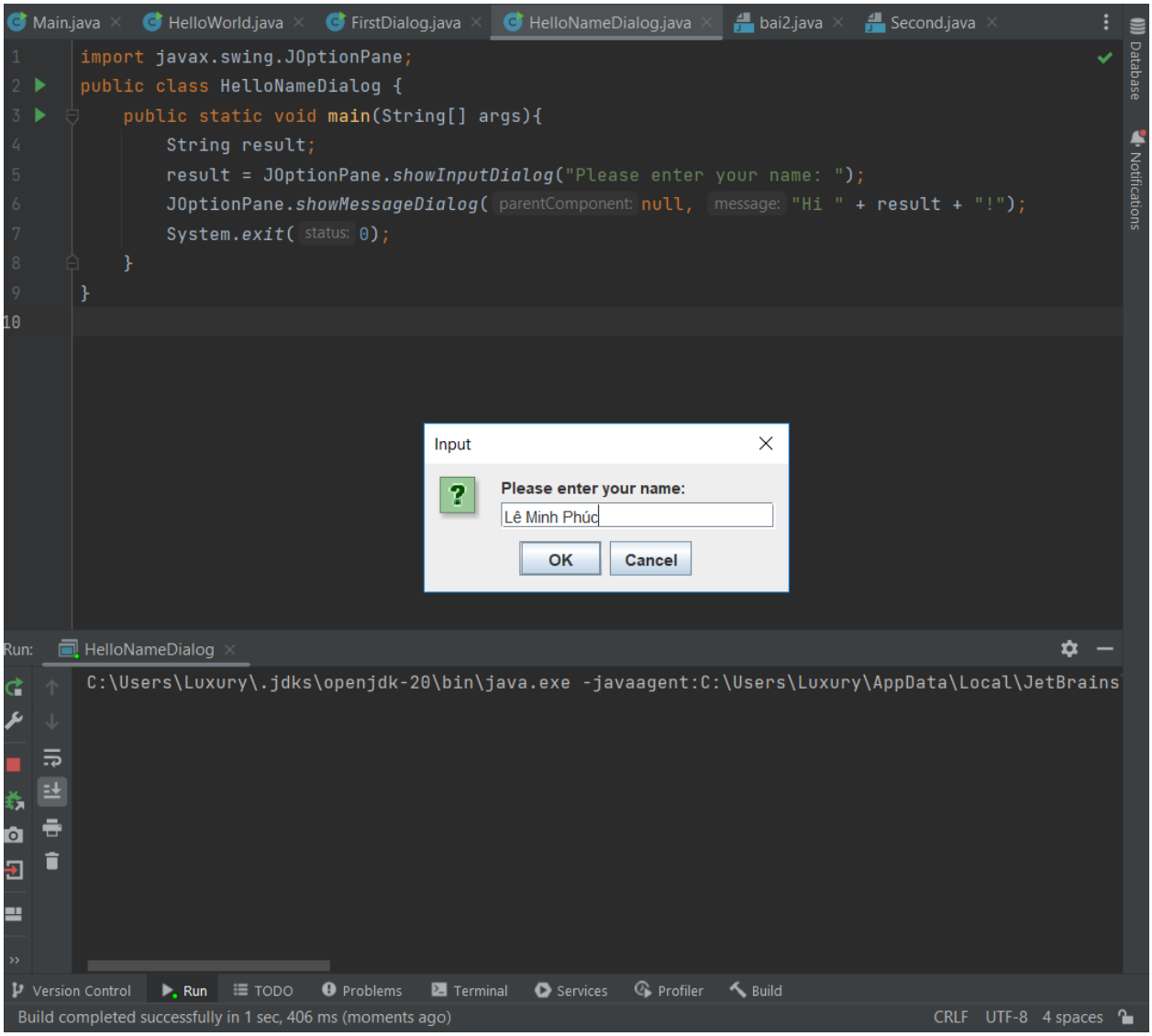
2.2.2 Write, compile the first dialog Java program

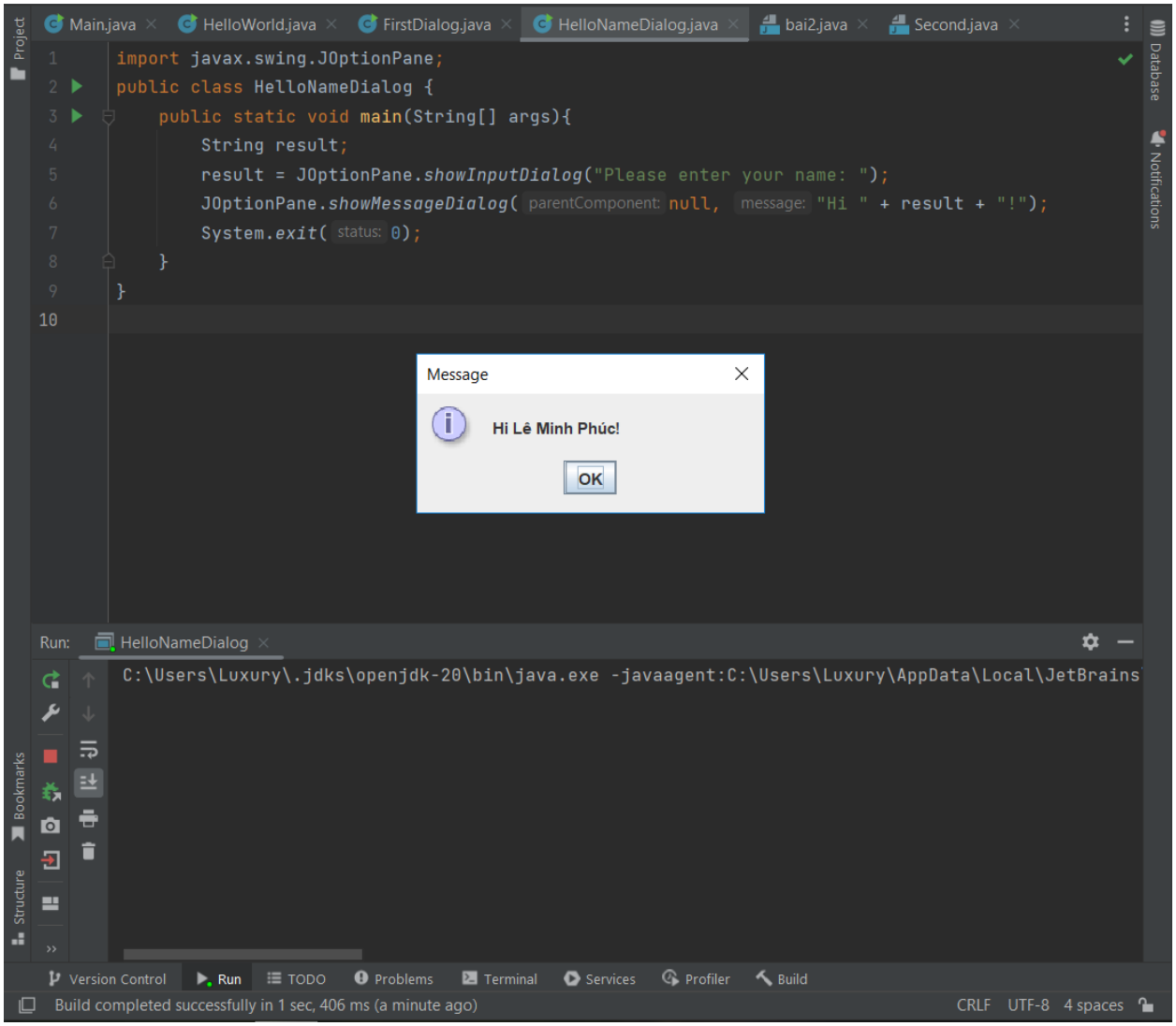
```
1 // Example 2: FirstDialog.java
2 import javax.swing.JOptionPane;
3 public class FirstDialog{
4     public static void main(String[] args){
5         JOptionPane.showMessageDialog(null,"Hello world! How are you?");
6         System.exit(0);
7     }
8 }
```



2.2.3 Write, compile the first input dialog Java application

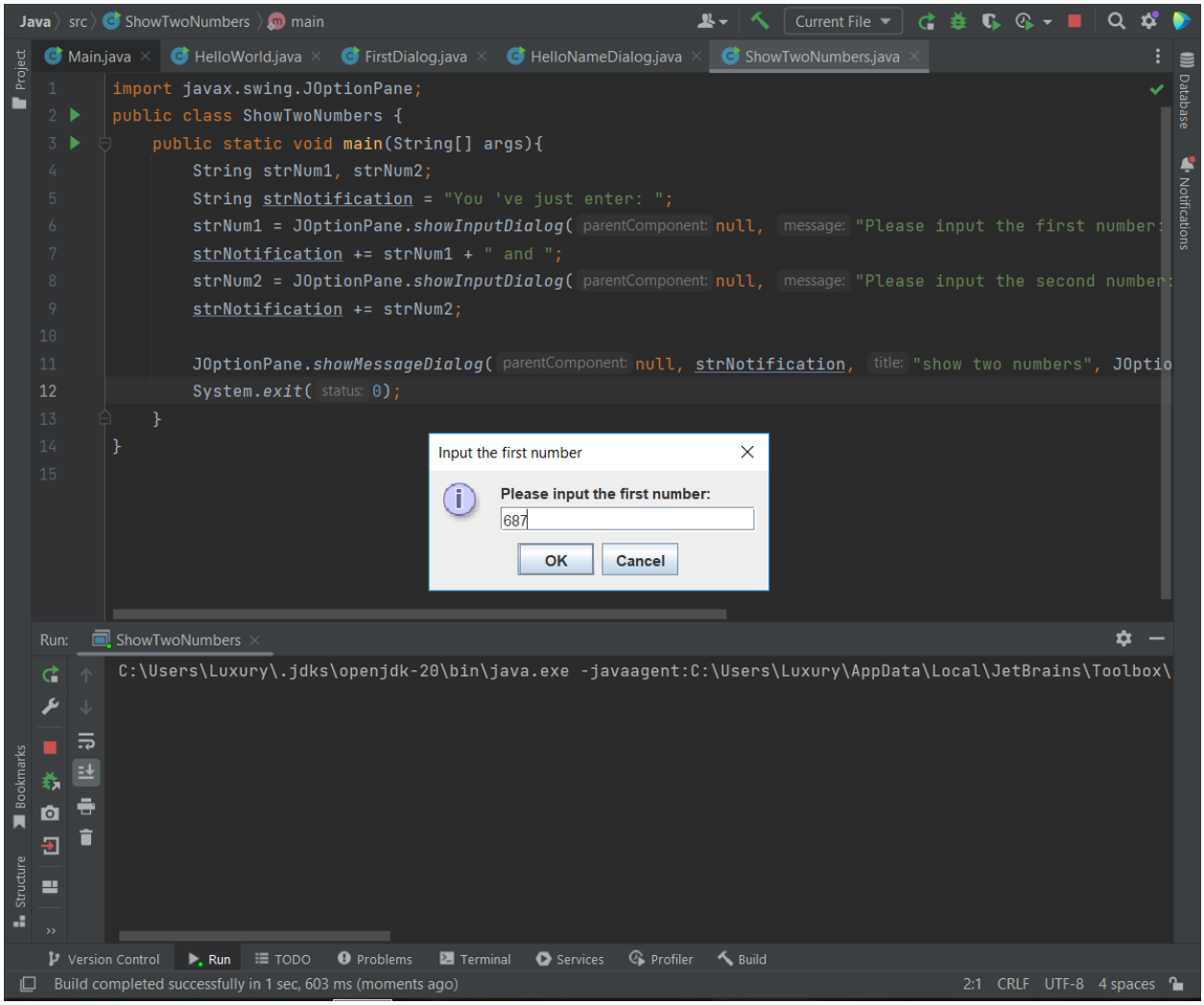
```
1  // Example 3: HelloNameDialog.java
2  import javax.swing.JOptionPane;
3  public class HelloNameDialog{
4    public static void main(String[] args){
5      String result;
6      result = JOptionPane.showInputDialog("Please enter your name:");
7      JOptionPane.showMessageDialog(null, "Hi "+ result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

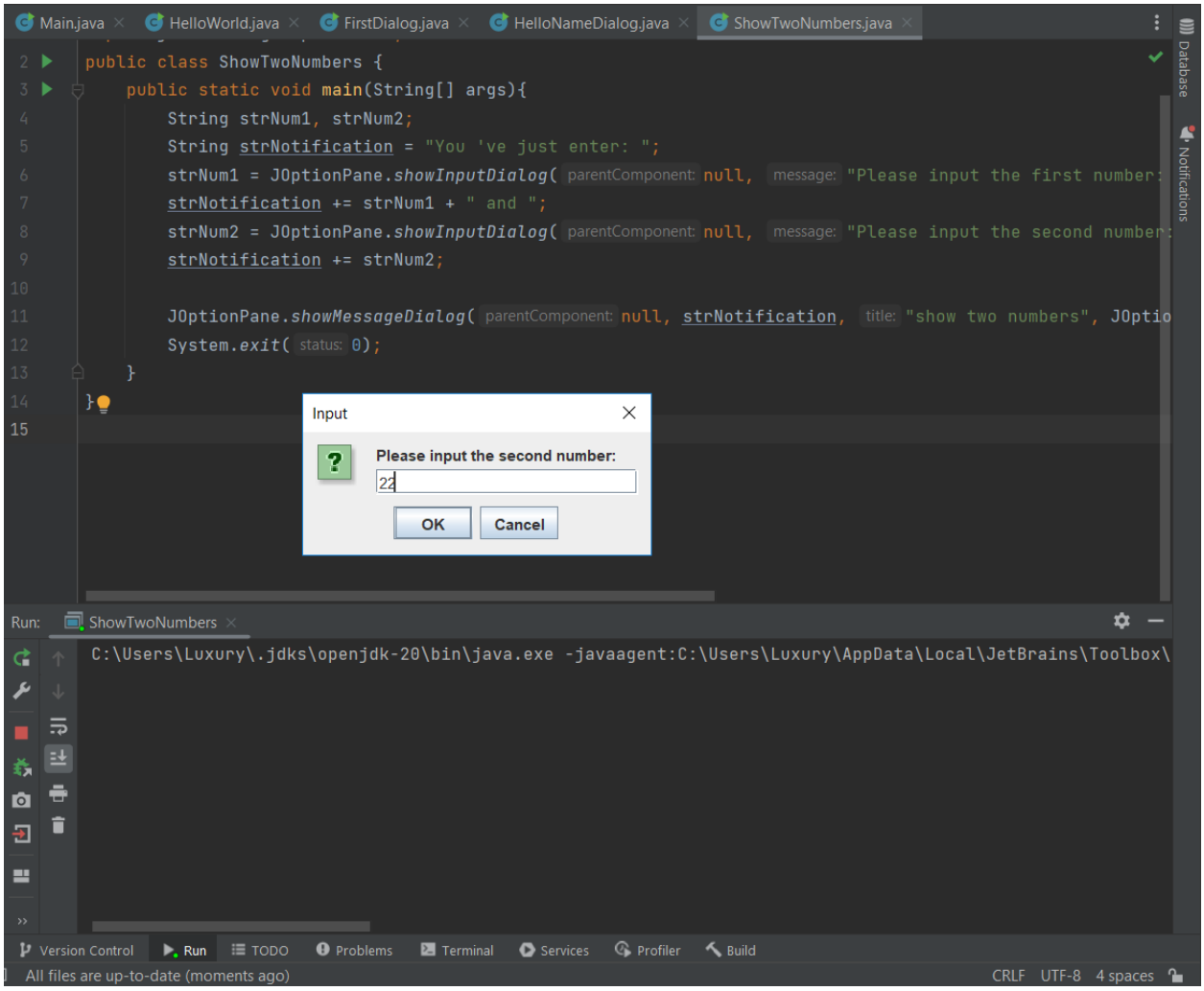

Main.java
HelloWorld.java
FirstDialog.java
HelloNameDialog.java
bai2.java
Second.java
import javax.swing.JOptionPane;
public class HelloNameDialog {
public static void main(String[] args){
String result;
result = JOptionPane.showInputDialog("Please enter your name: ");
JOptionPane.showMessageDialog(parentComponent: null, message: "Hi " + result + "!");
System.exit(status: 0);
}
}
Input
Please enter your name:
Lê Minh Phúc
OK
Cancel
Run:
HelloNameDialog
C:\Users\Luxury\.jdks\openjdk-20\bin\java.exe -javaagent:C:\Users\Luxury\AppData\Local\JetBrains
Version Control
Run
TODO
Problems
Terminal
Services
Profiler
Build
Build completed successfully in 1 sec, 406 ms (moments ago)
CRLF
UTF-8
4 spaces

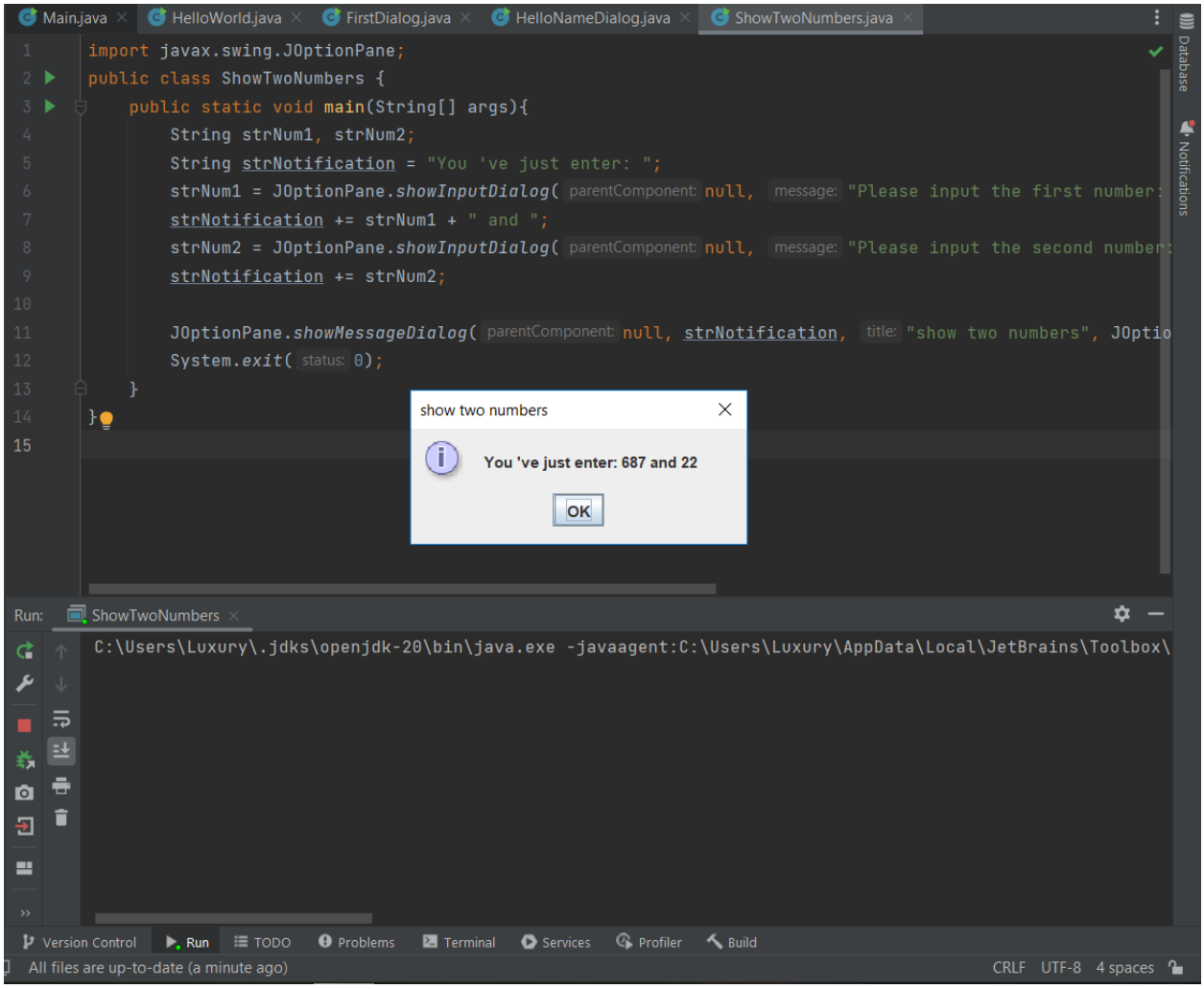

Main.java
HelloWorld.java
FirstDialog.java
HelloNameDialog.java
bai2.java
Second.java
import javax.swing.JOptionPane;
public class HelloNameDialog {
public static void main(String[] args){
String result;
result = JOptionPane.showInputDialog("Please enter your name: ");
JOptionPane.showMessageDialog(parentComponent: null, message: "Hi " + result + "!");
System.exit(status: 0);
}
}
Message
Hi Lê Minh Phúc!
OK
Run: HelloNameDialog
C:\Users\Luxury\.jdks\openjdk-20\bin\java.exe -javaagent:C:\Users\Luxury\AppData\Local\JetBrains
Version Control
Run
TODO
Problems
Terminal
Services
Profiler
Build
Build completed successfully in 1 sec, 406 ms (a minute ago)
CRLF
UTF-8
4 spaces

2.2.4 Write, compile, and run the following example:

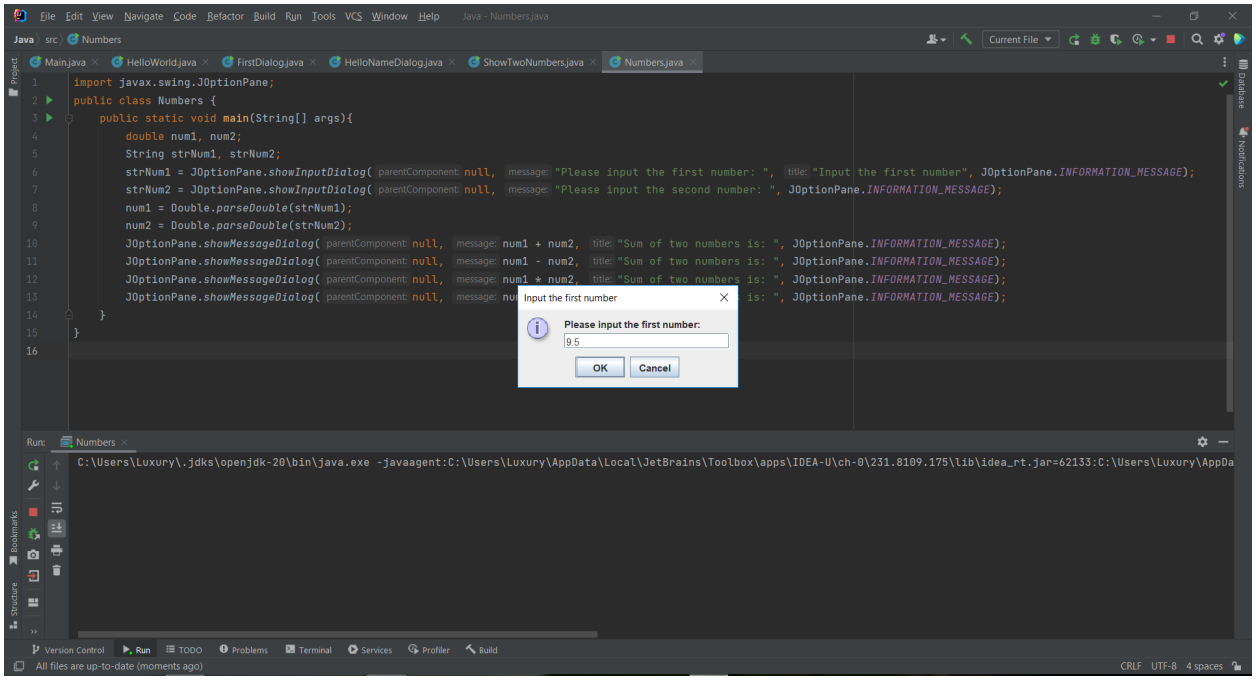
```
1  // Example 5: ShowTwoNumbers.java
2  import javax.swing.JOptionPane;
3  public class ShowTwoNumbers {
4    public static void main(String[] args){
5      String strNum1, strNum2;
6      String strNotification = "You've just entered: ";
7
8      strNum1 = JOptionPane.showInputDialog(null,
9   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

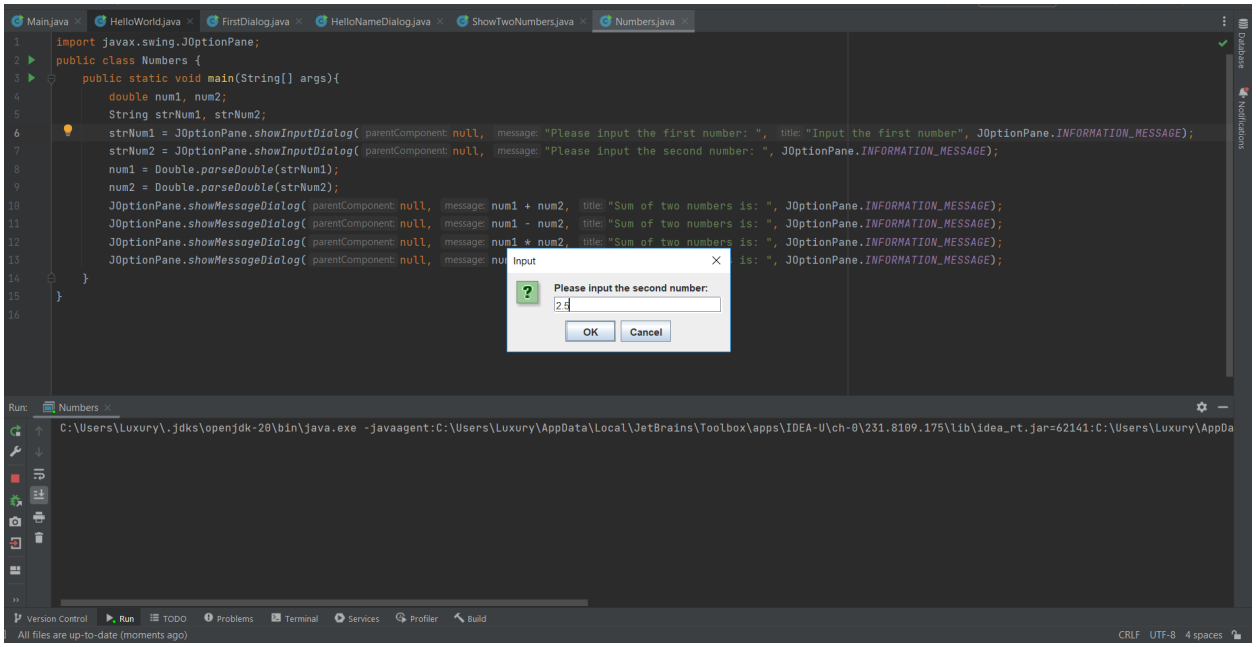

Java src ShowTwoNumbers main
Current File
Main.java HelloWorld.java FirstDialog.java HelloNameDialog.java ShowTwoNumbers.java
import javax.swing.JOptionPane;
public class ShowTwoNumbers {
public static void main(String[] args){
String strNum1, strNum2;
String strNotification = "You 've just enter: ";
strNum1 = JOptionPane.showInputDialog(parentComponent: null, message: "Please input the first number:
strNotification += strNum1 + " and ";
strNum2 = JOptionPane.showInputDialog(parentComponent: null, message: "Please input the second number:
strNotification += strNum2;
JOptionPane.showMessageDialog(parentComponent: null, strNotification, title: "show two numbers", JOptio
System.exit(status: 0);
}
}
Input the first number
Please input the first number:
687
OK
Cancel
Run: ShowTwoNumbers
C:\Users\Luxury\.jdks\openjdk-20\bin\java.exe -javaagent:C:\Users\Luxury\AppData\Local\JetBrains\Toolbox\
Version Control Run TODO Problems Terminal Services Profiler Build
Build completed successfully in 1 sec, 603 ms (moments ago)
2:1 CRLF UTF-8 4 spaces

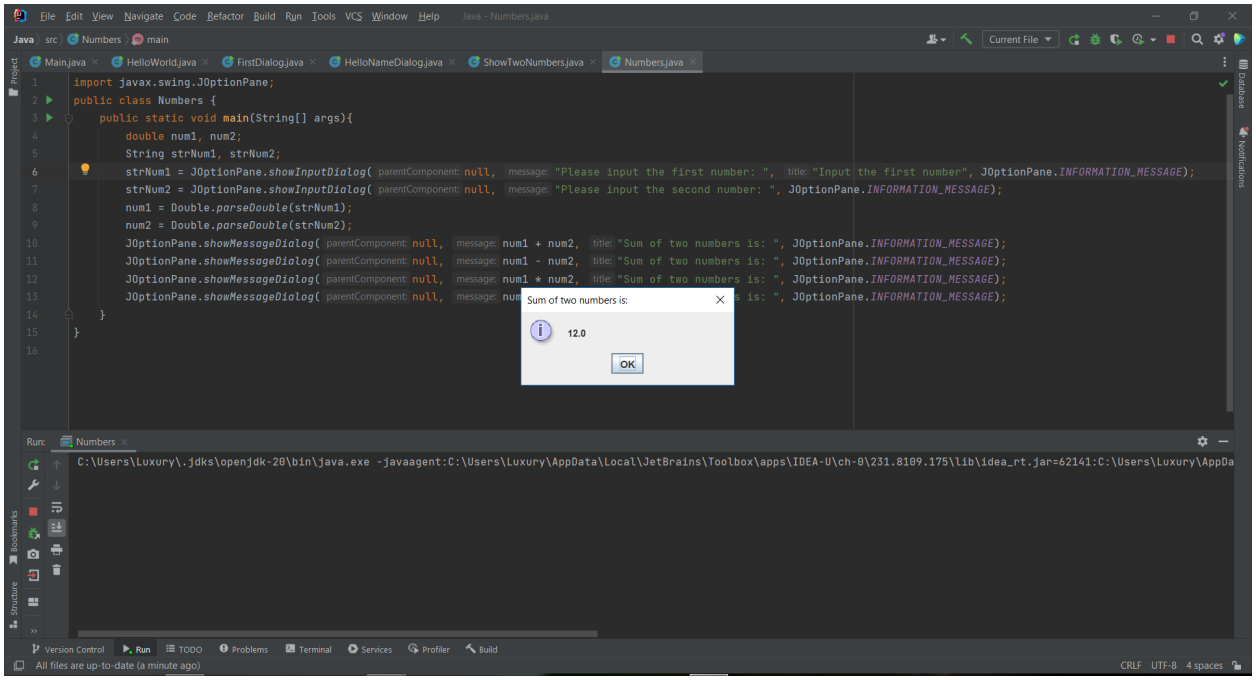

Main.java
HelloWorld.java
FirstDialog.java
HelloNameDialog.java
ShowTwoNumbers.java
public class ShowTwoNumbers {
public static void main(String[] args){
String strNum1, strNum2;
String strNotification = "You 've just enter: ";
strNum1 = JOptionPane.showInputDialog(parentComponent: null, message: "Please input the first number:
strNotification += strNum1 + " and ";
strNum2 = JOptionPane.showInputDialog(parentComponent: null, message: "Please input the second number:
strNotification += strNum2;
JOptionPane.showMessageDialog(parentComponent: null, strNotification, title: "show two numbers", JOptio
System.exit(status: 0);
}
}
Input
Please input the second number:
22
OK
Cancel
Run:
ShowTwoNumbers
C:\Users\Luxury\.jdks\openjdk-20\bin\java.exe -javaagent:C:\Users\Luxury\AppData\Local\JetBrains\Toolbox\
Version Control
Run
TODO
Problems
Terminal
Services
Profiler
Build
All files are up-to-date (moments ago)
CRLF
UTF-8
4 spaces

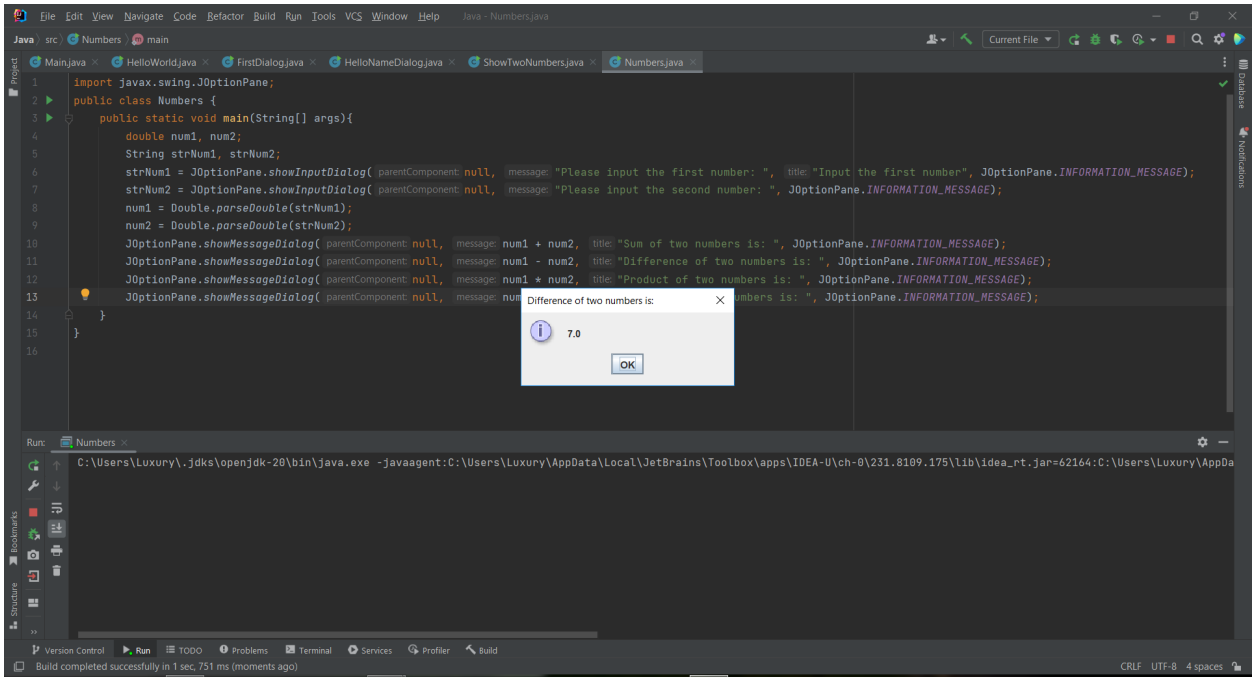


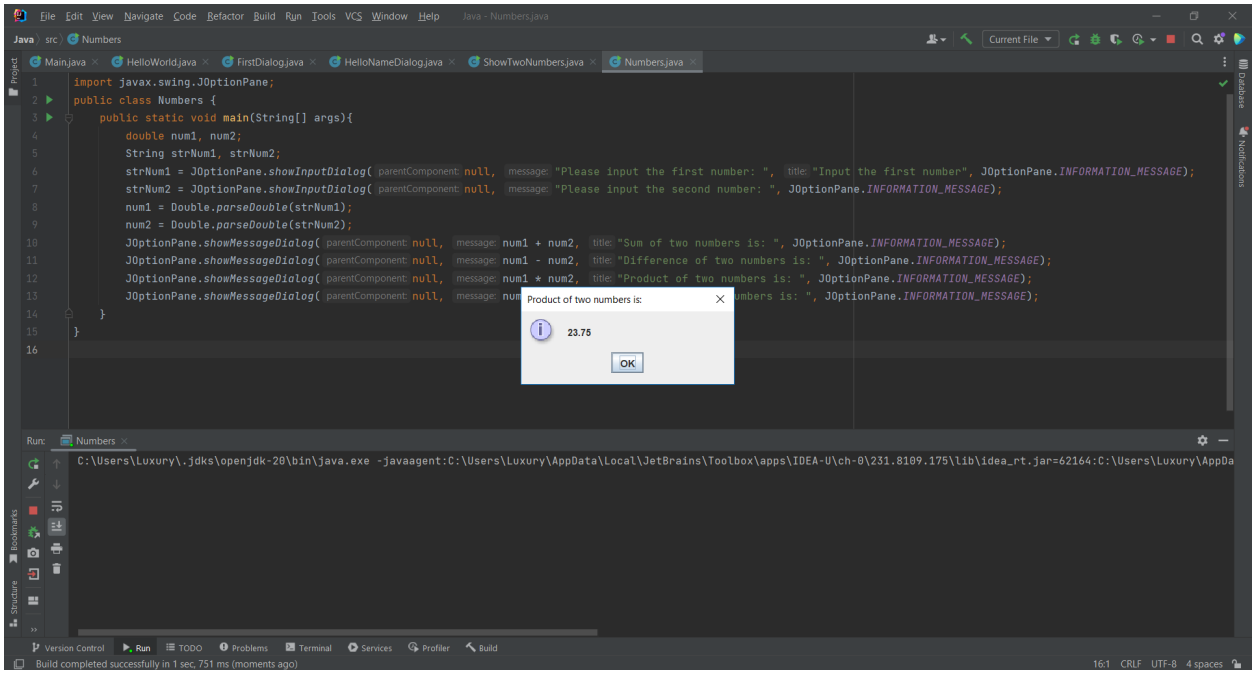
2.2.5 Write a program to calculate sum, difference, product, and quotient of 2 double numbers which are entered by users.

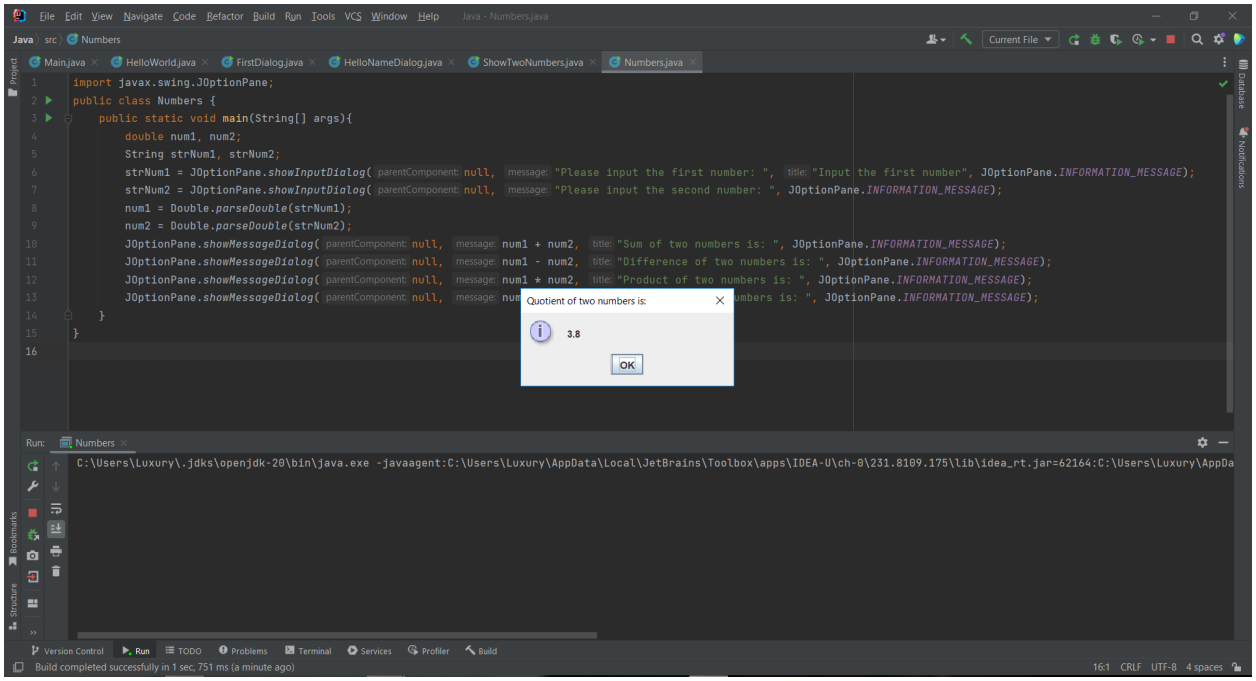

Input the first number
Please input the first number:
9.5
OK
Cancel


Input
Please input the second number:
2.5
OK
Cancel


Sum of two numbers is:
12.0
OK

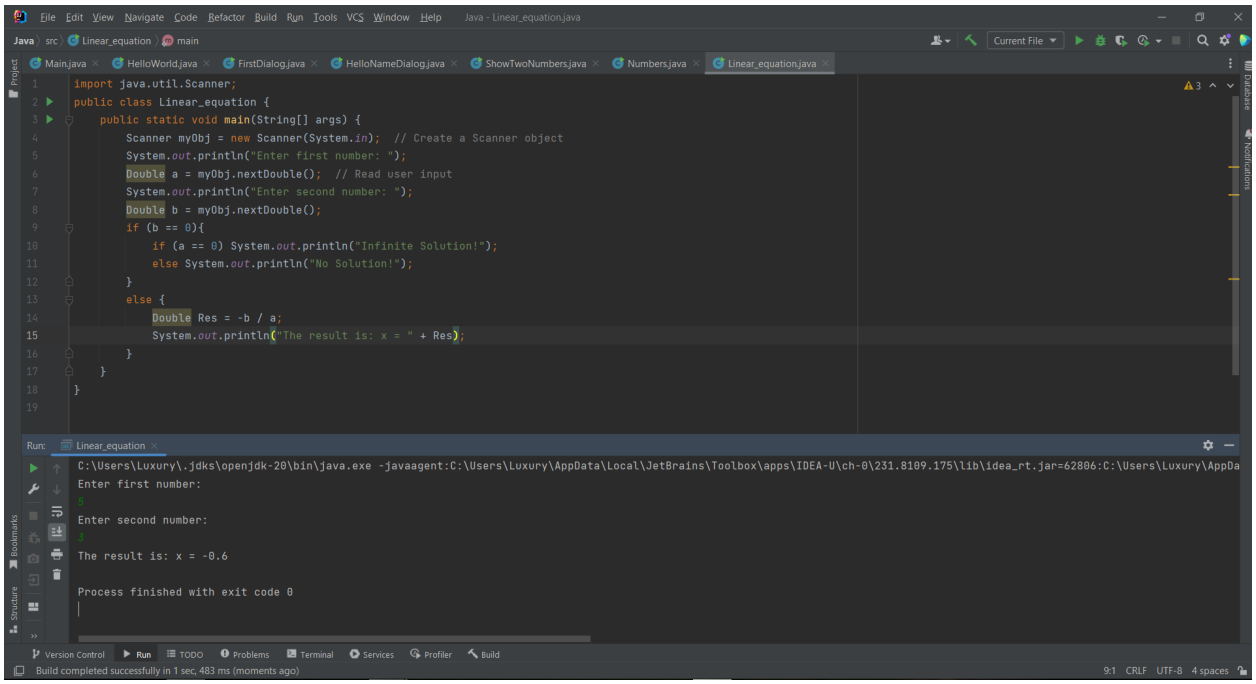

Difference of two numbers is:
7.0
OK



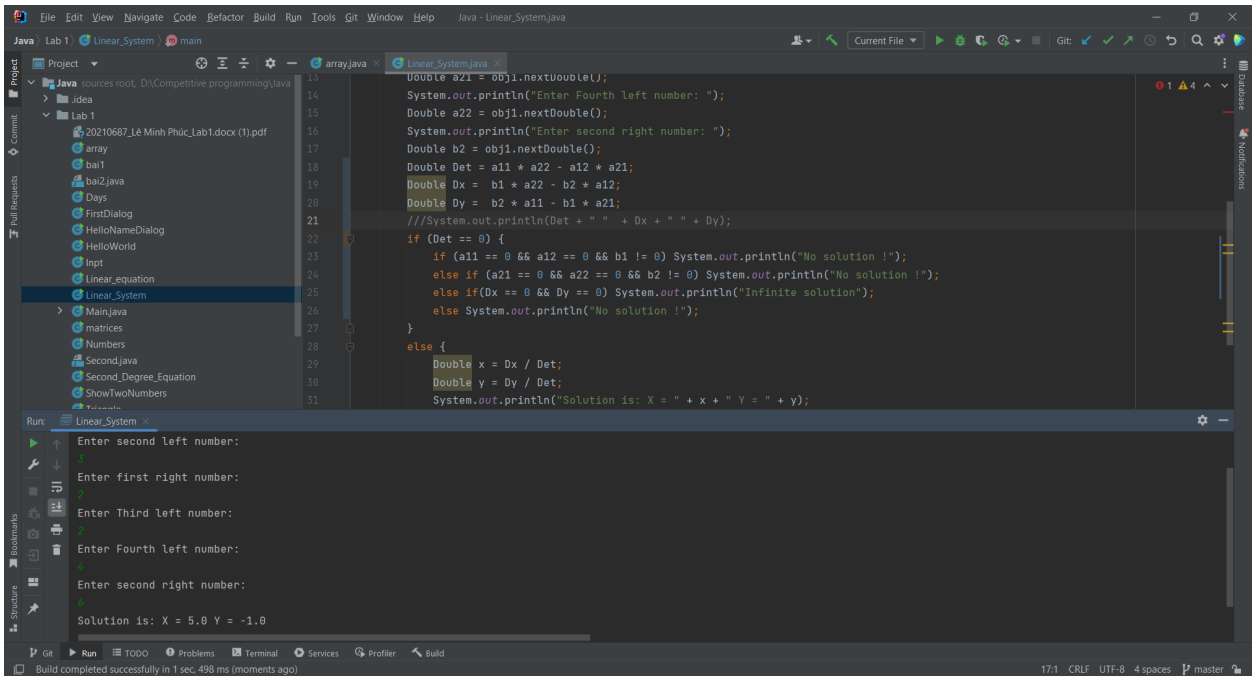


2.2.6:

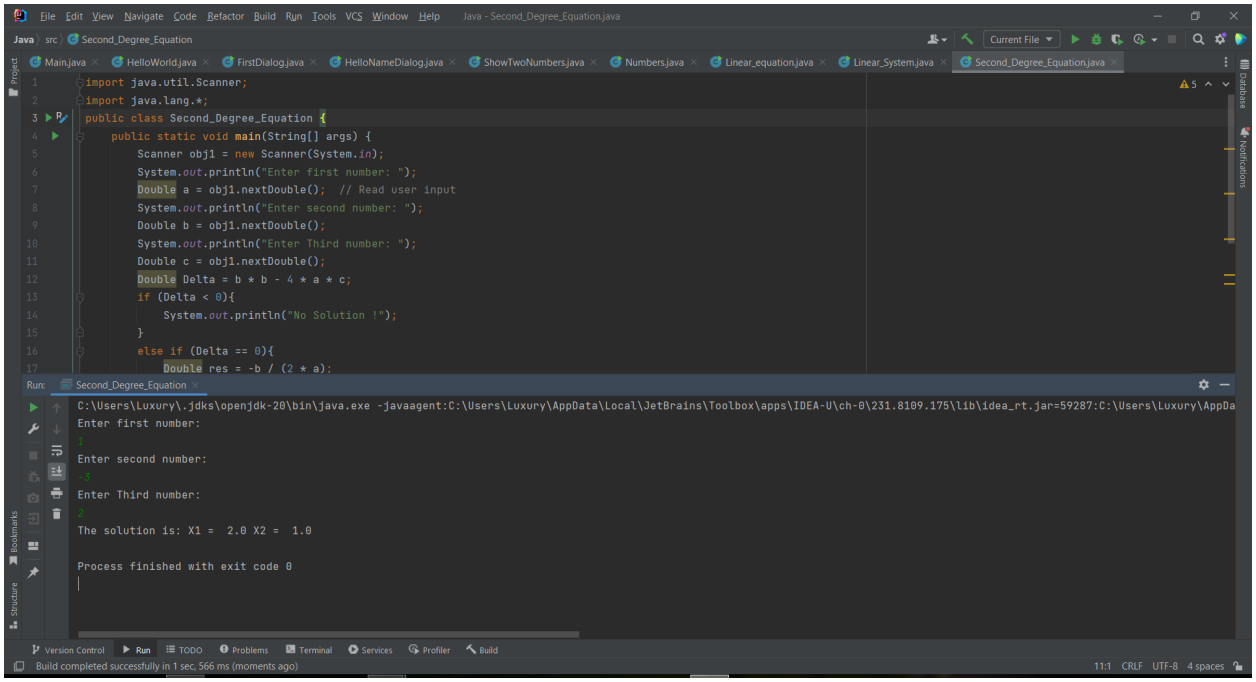
1. Linear equation



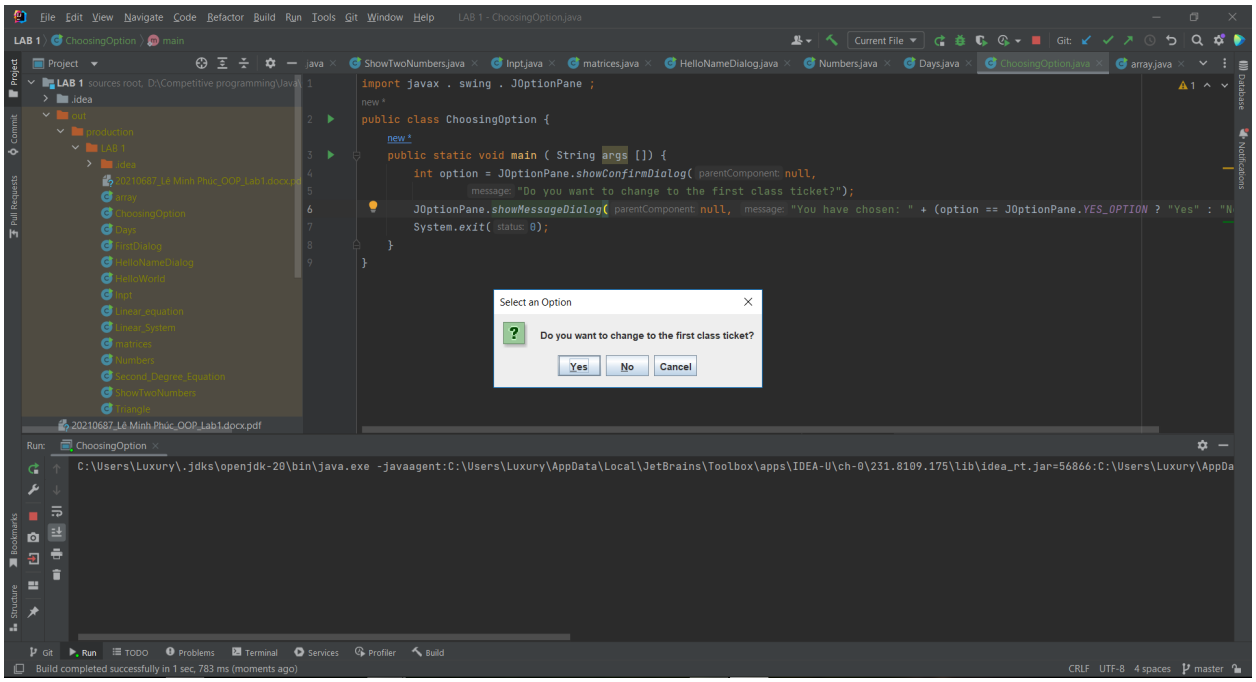
2. Linear system



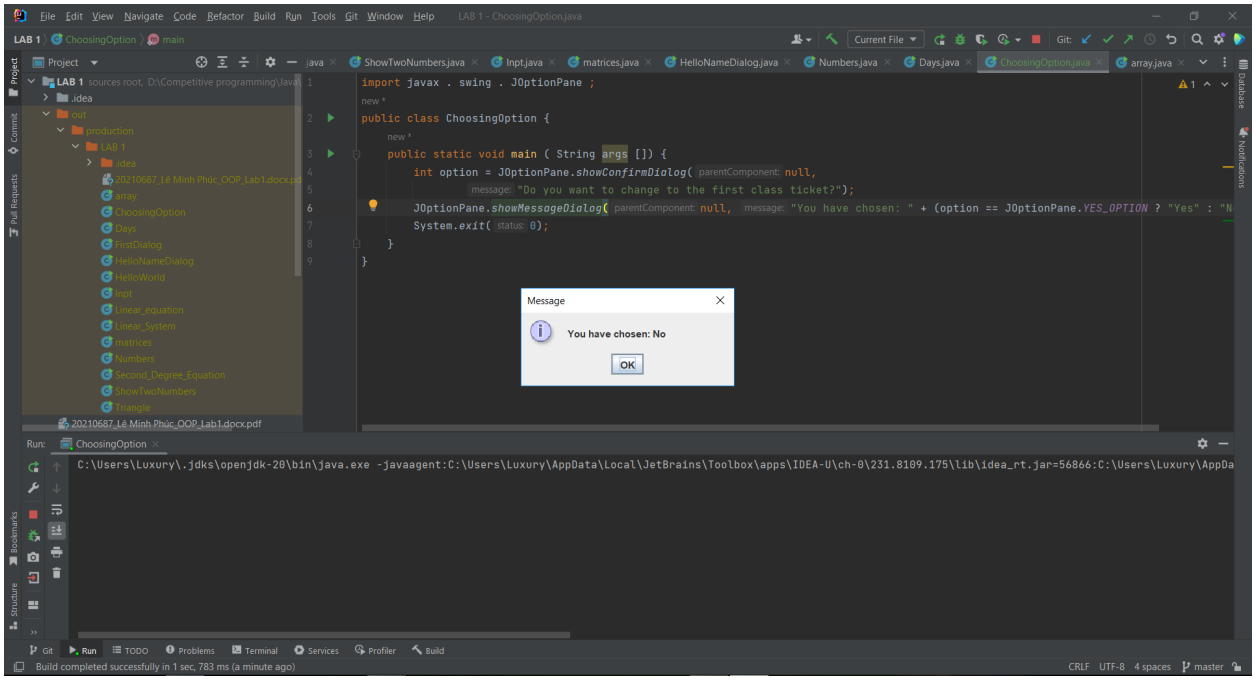
3. The Second Degree Equation



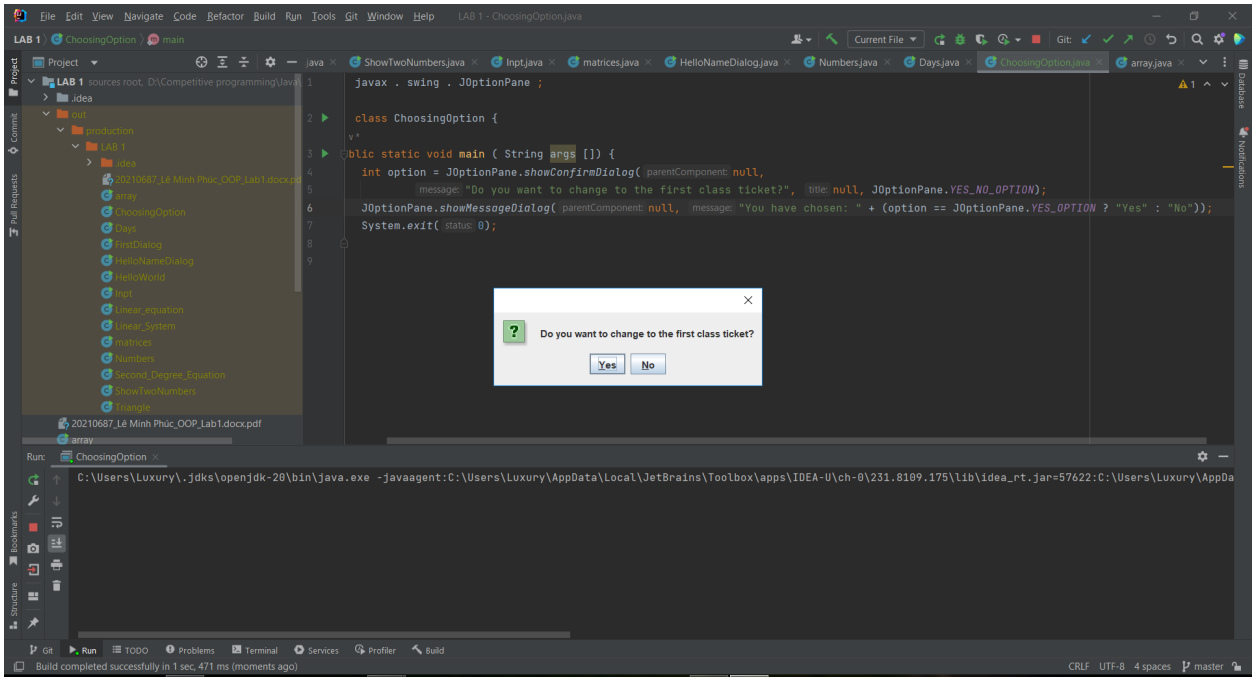
6.1: Choosing Option



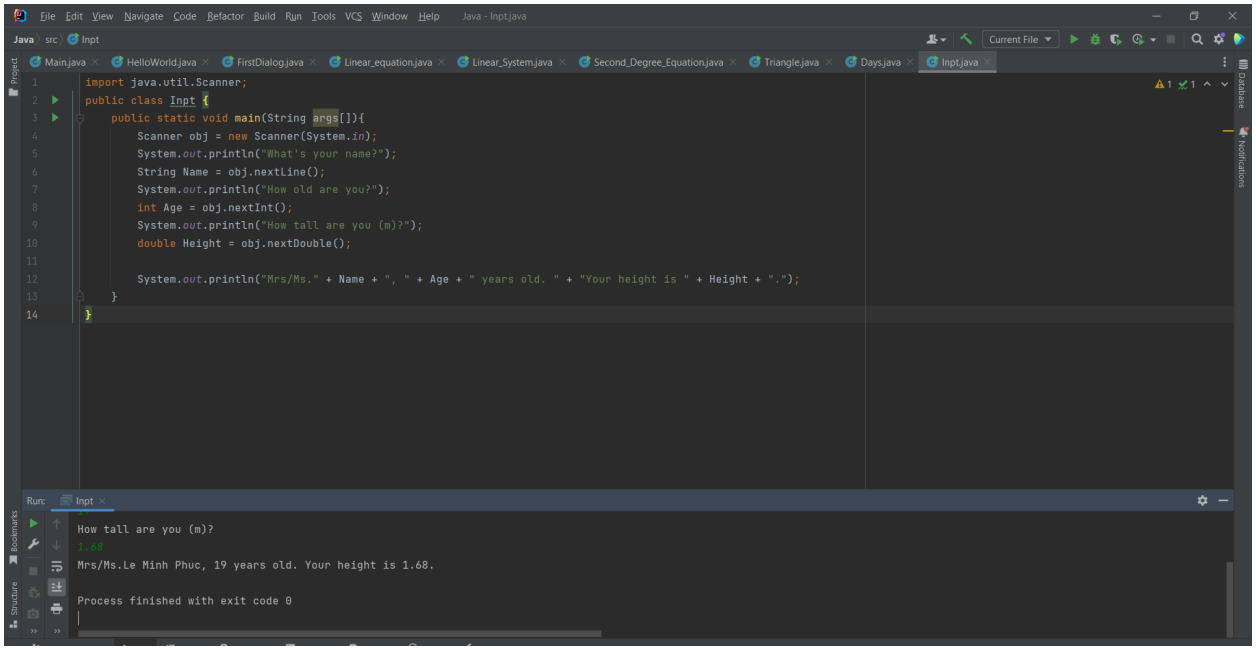
Question 1: When you hit ”Cancel”, it will count as a negative choice so the ”You have chosen: No” dialog will popup.

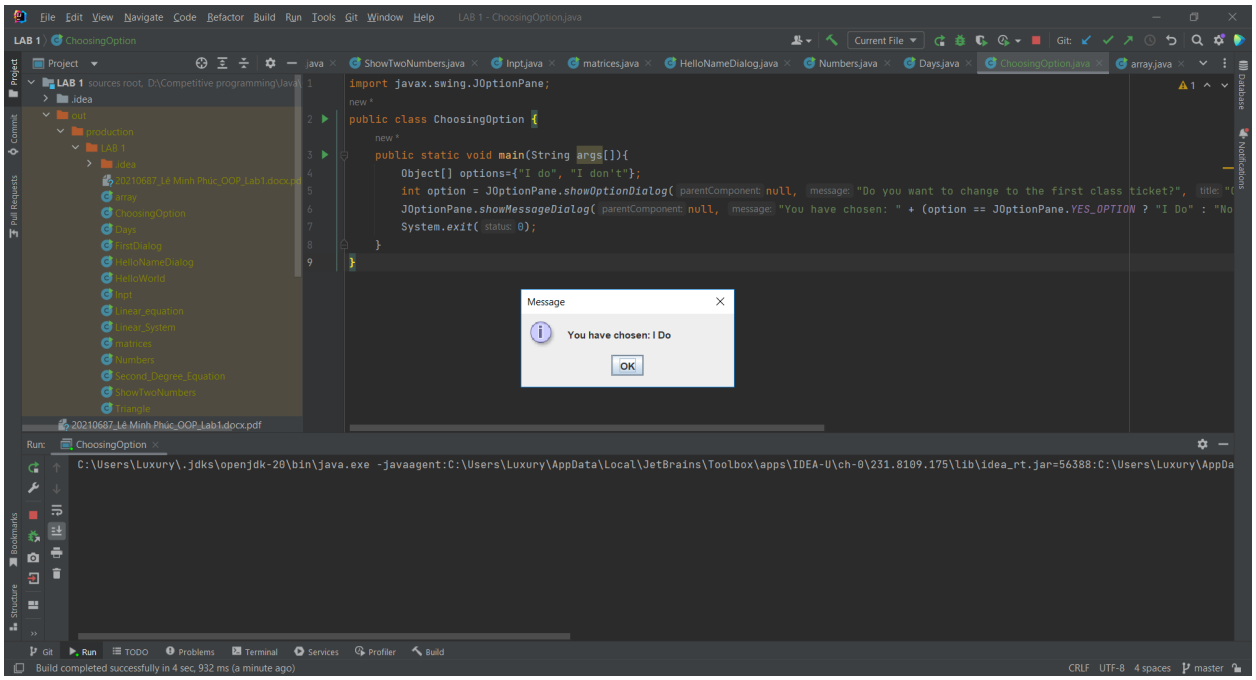


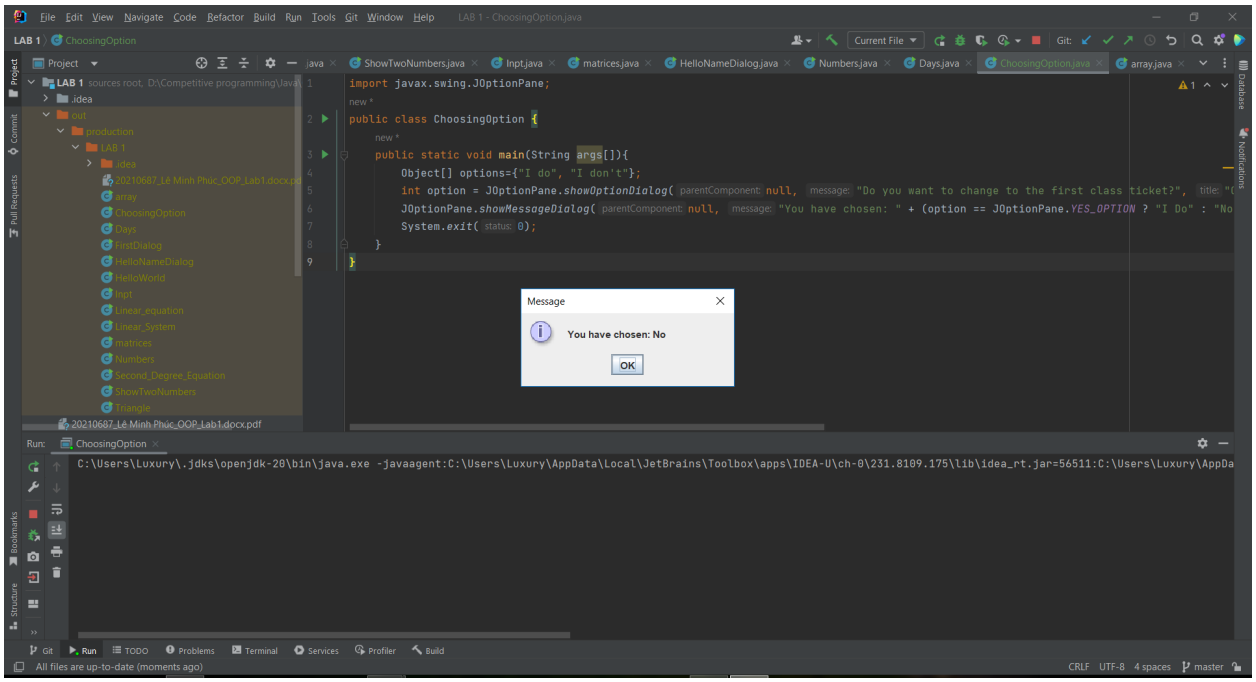
Question 2: You can use `JOptionPane.YES_NO_OPTION` so there will be 2 options left.



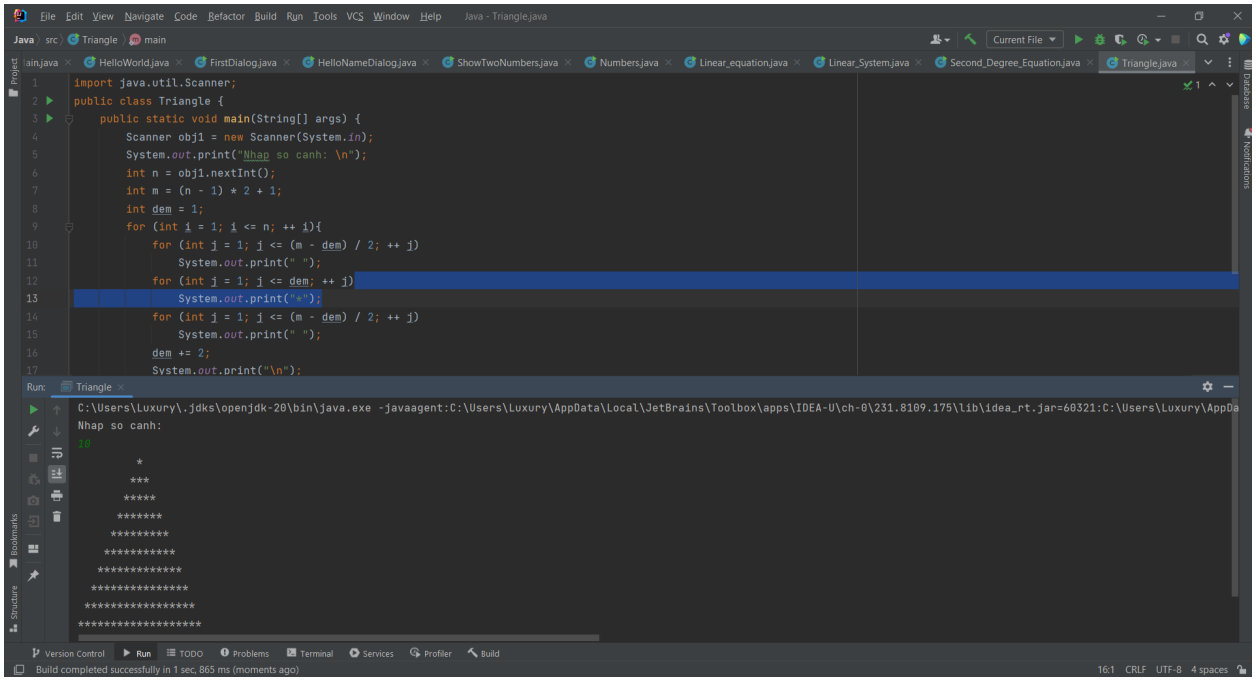
6.2: Input from keyboard


import java.util.Scanner;
public class Inpt {
public static void main(String args[]){
Scanner obj = new Scanner(System.in);
System.out.println("What's your name?");
String Name = obj.nextLine();
System.out.println("How old are you?");
int Age = obj.nextInt();
System.out.println("How tall are you (m)?");
double Height = obj.nextDouble();
System.out.println("Mrs/Ms." + Name + ", " + Age + " years old. " + "Your height is " + Height + ".");
}
}
How tall are you (m)?
1.68
Mrs/Ms.Le Minh Phuc, 19 years old. Your height is 1.68.
Process finished with exit code 0

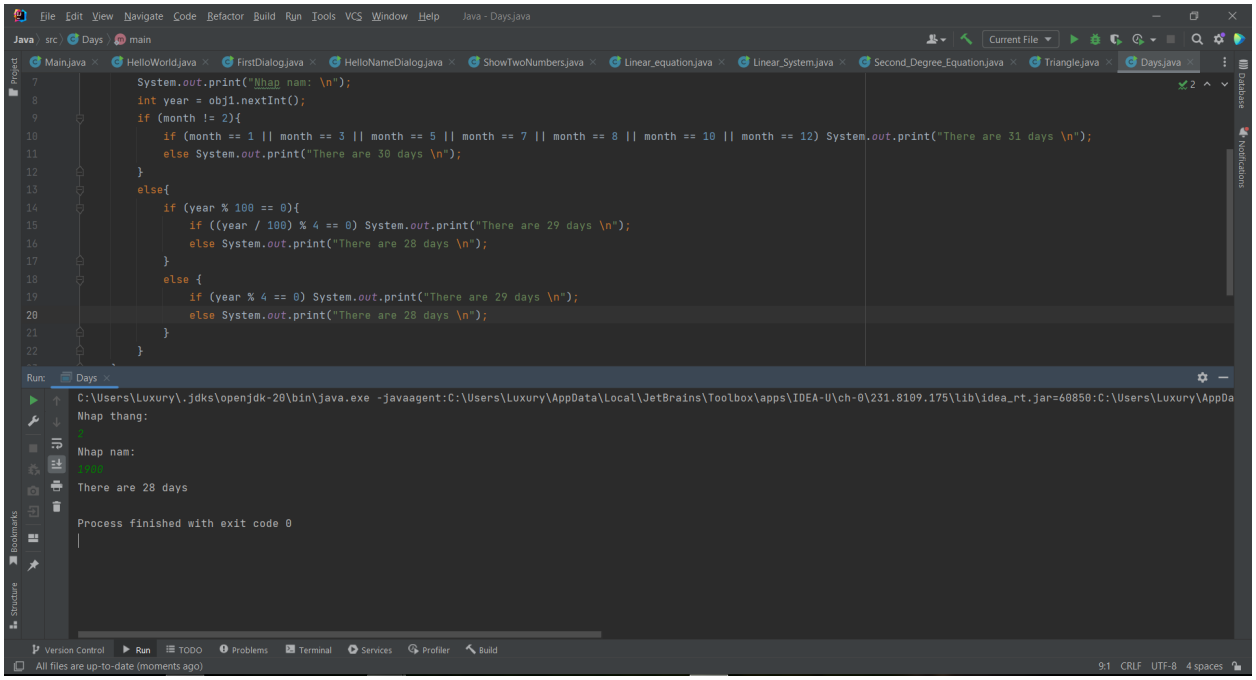

import javax.swing.JOptionPane;
public class ChoosingOption {
public static void main(String args[]){
Object[] options={"I do", "I don't"};
int option = JOptionPane.showOptionDialog(parentComponent: null, message: "Do you want to change to the first class ticket?",
JOptionPane.showMessageDialog(parentComponent: null, message: "You have chosen: " + (option == JOptionPane.YES_OPTION ? "I Do" : "No
System.exit(status: 0);
}
}
Message
You have chosen: I Do
OK
C:\Users\Luxury\.jdks\openjdk-20\bin\java.exe -javaagent:C:\Users\Luxury\AppData\Local\JetBrains\Toolbox\apps\IDEA-U\ch-0\231.8109.175\lib\idea_rt.jar=56388:C:\Users\Luxury\AppDa
Build completed successfully in 4 sec, 932 ms (a minute ago)



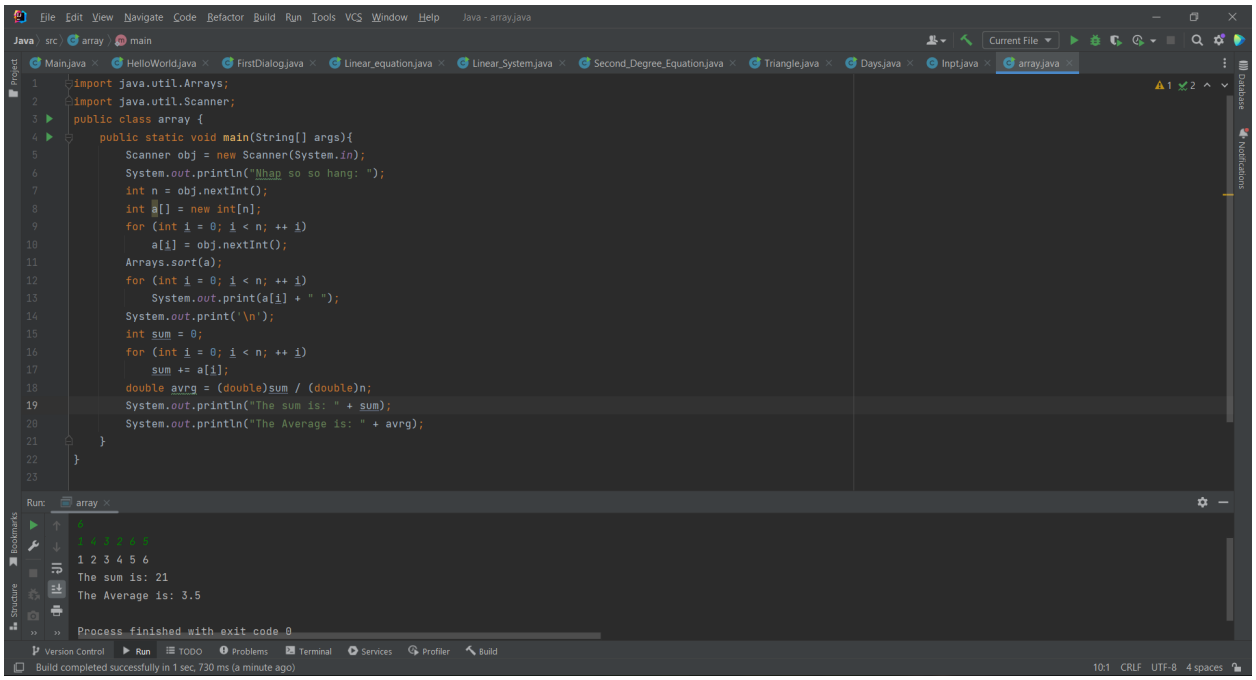
6.3: Triangle



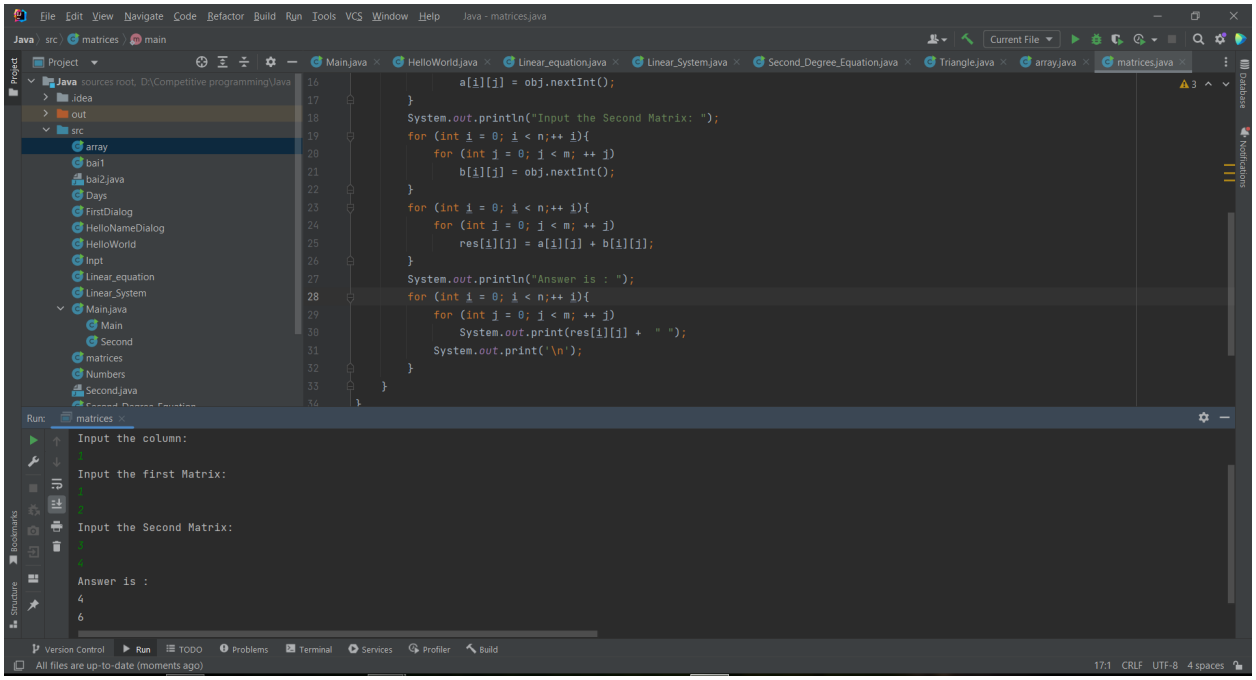
6.4: Write a program to display the number of days of a month



6.5: Arrays



6.6: Matrices


File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
Java - matrices.java
Main.java
HelloWorld.java
Linear_equation.java
Linear_System.java
Second_Degree_Equation.java
Triangle.java
array.java
matrices.java
a[i][j] = obj.nextInt();
System.out.println("Input the Second Matrix: ");
for (int i = 0; i < n;++ i){
for (int j = 0; j < m; ++ j)
b[i][j] = obj.nextInt();
for (int i = 0; i < n;++ i){
for (int j = 0; j < m; ++ j)
res[i][j] = a[i][j] + b[i][j];
System.out.println("Answer is : ");
for (int i = 0; i < n;++ i){
for (int j = 0; j < m; ++ j)
System.out.print(res[i][j] + " ");
System.out.print('\n');
Run: matrices
Input the column:
1
Input the first Matrix:
1
2
Input the Second Matrix:
3
4
Answer is :
4
6
Version Control
Run
TODO
Problems
Terminal
Services
Profiler
Build
All files are up-to-date (moments ago)
17:1 CRLF UTF-8 4 spaces