

ĐẠI HỌC BÁCH KHOA HÀ NỘI
TRƯỜNG CÔNG NGHỆ THÔNG TIN VÀ TRUYỀN THÔNG

BÁO CÁO THỰC HÀNH
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BÀI THỰC HÀNH – LAB01

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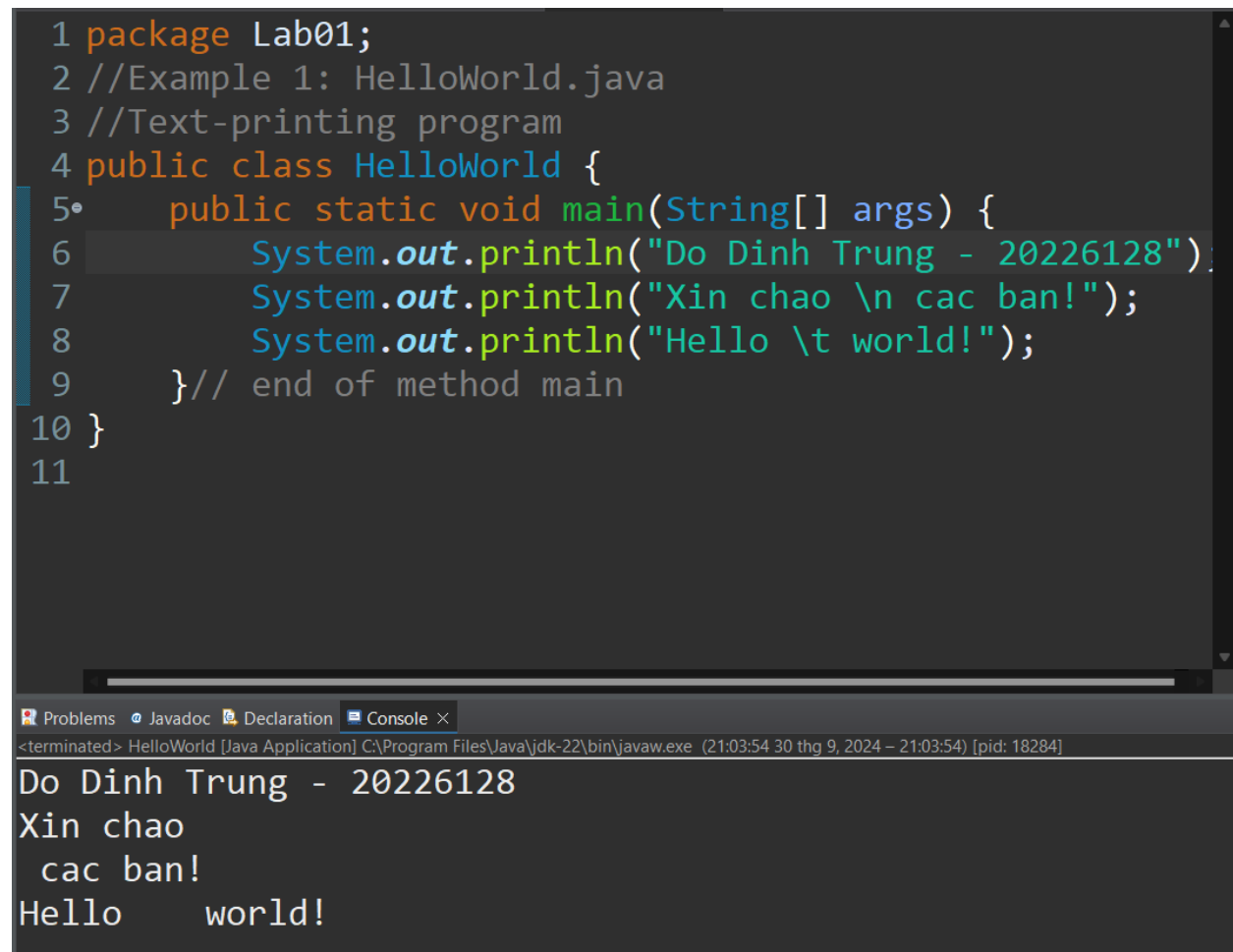
BÁO CÁO THỰC HÀNH LAP 1

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
5     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 }
```

Kết quả:



```
1 package Lab01;
2 //Example 1: HelloWorld.java
3 //Text-printing program
4 public class HelloWorld {
5     public static void main(String[] args) {
6         System.out.println("Do Dinh Trung - 20226128");
7         System.out.println("Xin chao \n cac ban!");
8         System.out.println("Hello \t world!");
9     } // end of method main
10 }
11
```

Problems Javadoc Declaration Console ×

<terminated> HelloWorld [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (21:03:54 30 thg 9, 2024 – 21:03:54) [pid: 18284]

Do Dinh Trung - 20226128
Xin chao
cac ban!
Hello world!

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 }

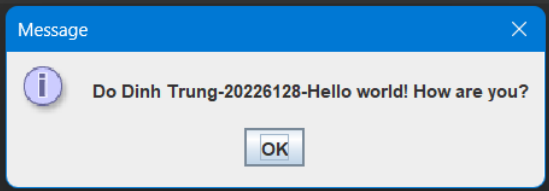
```

Kết quả:

```

1 package Lab01;
2
3 import javax.swing.JOptionPane;
4
5 // Example 2: FirstDialog.java
6 public class FirstDialog {
7     public static void main(String[] args) {
8         JOptionPane.showMessageDialog(null,"Do Dinh Tr
9         System.exit(0);
10    }
11 }
12

```



2.2.3 Write, compile the first input dialog Java application

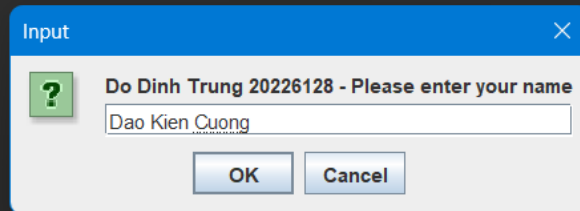
```

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 }

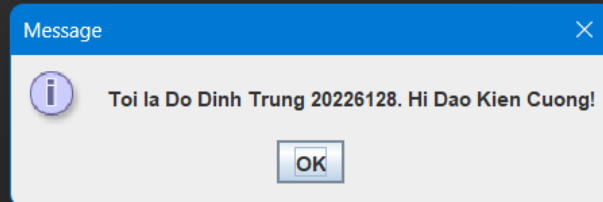
```

Kết quả:

```
package Lab01;
// Example 3: HelloNameDialog.java
import javax.swing.JOptionPane;
public class HelloNameDialog {
    public static void main(String[] args) {
        String result;
        result = JOptionPane.showInputDialog("Do Dinh Trung 20226128 - Please enter your name");
        JOptionPane.showMessageDialog(null,"Toi la Do Dinh Trung 20226128. Hi " + result + "!");
        System.exit(0);
    }
}
```



```
1 package Lab01;
2 // Example 3: HelloNameDialog.java
3 import javax.swing.JOptionPane;
4 public class HelloNameDialog {
5     public static void main(String[] args) {
6         String result;
7         result = JOptionPane.showInputDialog("Do Dinh Trung 20226128 - Please enter your name");
8         JOptionPane.showMessageDialog(null,"Toi la Do Dinh Trung 20226128. Hi " + result + "!");
9         System.exit(0);
10    }
11 }
12
```



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 }

```

Kết quả:

```

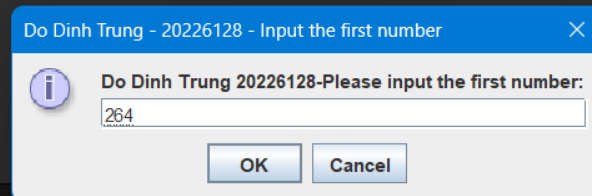
package Lab01;
// Example 5: ShowTwoNumbers.java
import javax.swing.JOptionPane;
public class ShowTwoNumbers {
    public static void main(String[] args) {
        String strNum1, strNum2;
        String strNotification = "Do Dinh Trung 20226128-You've just entered: ";

        strNum1 = JOptionPane.showInputDialog(null,
            "Do Dinh Trung 20226128-Please input the first number: ",
            "Do Dinh Trung - 20226128 - Input the first number", JOptionPane.INFORMATION_MESSAGE);
        strNotification += strNum1 + " and ";

        strNum2 = JOptionPane.showInputDialog(null,
            "Do Dinh Trung - 20226128-Please input the second number: ",
            "Do Dinh Trung - 20226128 - Input the second number", JOptionPane.INFORMATION_MESSAGE);
        strNotification += strNum2;

        JOptionPane.showMessageDialog(null, strNotification,
            "Do Dinh Trung- 20226128. Show two numbers", JOptionPane.INFORMATION_MESSAGE);
        System.exit(0);
    }
}

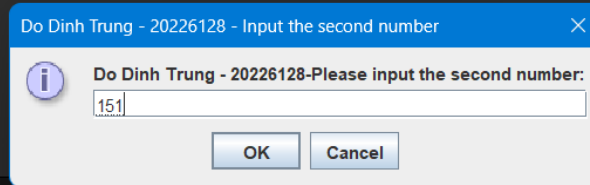
```



```

1 package Lab01;
2 // Example 5: ShowTwoNumbers.java
3 import javax.swing.JOptionPane;
4 public class ShowTwoNumbers {
5     public static void main(String[] args) {
6         String strNum1, strNum2;
7         String strNotification = "Do Dinh Trung 20226128-You've just entered: ";
8
9         strNum1 = JOptionPane.showInputDialog(null,
10             "Do Dinh Trung 20226128-Please input the first number: ",
11             "Do Dinh Trung - 20226128 - Input the first number", JOptionPane.INFORMATION_MESSAGE);
12         strNotification += strNum1 + " and ";
13
14         strNum2 = JOptionPane.showInputDialog(null,
15             "Do Dinh Trung - 20226128-Please input the second number: ",
16             "Do Dinh Trung - 20226128 - Input the second number", JOptionPane.INFORMATION_MESSAGE);
17         strNotification += strNum2;
18
19         JOptionPane.showMessageDialog(null, strNotification,
20             "Do Dinh Trung- 20226128. Show two numbers", JOptionPane.INFORMATION_MESSAGE);
21         System.exit(0);
22     }
23 }

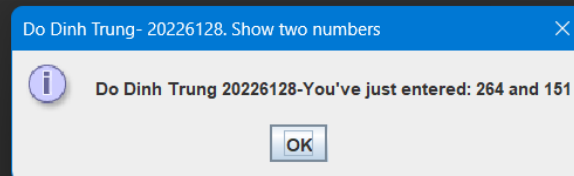
```



```

1 package Lab01;
2 // Example 5: ShowTwoNumbers.java
3 import javax.swing.JOptionPane;
4 public class ShowTwoNumbers {
5     public static void main(String[] args) {
6         String strNum1, strNum2;
7         String strNotification = "Do Dinh Trung 20226128-You've just entered: ";
8
9         strNum1 = JOptionPane.showInputDialog(null,
10             "Do Dinh Trung 20226128-Please input the first number: ",
11             "Do Dinh Trung - 20226128 - Input the first number", JOptionPane.INFORMATION_MESSAGE);
12         strNotification += strNum1 + " and ";
13
14         strNum2 = JOptionPane.showInputDialog(null,
15             "Do Dinh Trung - 20226128-Please input the second number: ",
16             "Do Dinh Trung - 20226128 - Input the second number", JOptionPane.INFORMATION_MESSAGE);
17         strNotification += strNum2;
18
19         JOptionPane.showMessageDialog(null, strNotification,
20             "Do Dinh Trung- 20226128. Show two numbers", JOptionPane.INFORMATION_MESSAGE);
21         System.exit(0);
22     }
23 }

```



BÀI TẬP

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
2.2.2 ...
- *Kết quả* : (Source code :src/Lab01/Bai2_2_5.java)

```

1 package Lab01;
2 import java.util.Scanner;
3 //Do Đình Trung - Bài 2.2.5
4 public class Bai2_2_5 {
5     public static void main(String[] args) {
6         //Khởi tạo đối tượng Scanner để nhập dữ liệu từ bàn phím
7         Scanner scanner = new Scanner(System.in);
8         //Nhập 2 số
9         System.out.print("Trung-Nhap so thu nhat: ");
10        String str_num1 = scanner.nextLine();
11        System.out.print("Trung-Nhap so thu hai: ");
12        String str_num2 = scanner.nextLine();
13        //Chuyển đổi từ string sang double
14        double num1 = Double.parseDouble(str_num1);
15        double num2 = Double.parseDouble(str_num2);
16        //Tính tổng, chênh lệch, tích
17        System.out.println("Trung-Tong: " + (num1 + num2));
18        System.out.println("Trung-Chênh lệch: " + Math.abs(num1 - num2));
19        System.out.println("Trung-Tích: " + num1 * num2);
20        //Kiểm tra ước số trước khi thực hiện phép chia
21        if(num2 != 0) {
22            System.out.println("Trung-Thuong: " + num1 / num2);
23        }
24        else {
25            System.out.println("Trung-Khong the chia cho 0");
26        }
27        //Đóng scanner
28        scanner.close();
29    }
30 }

```

Problems Javadoc Declaration Console ×

<terminated> Bai2_2_5 [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (21:36:22 30 thg 9, 2024 – 21:36:24) [P

```

Trung-Nhap so thu nhat: 26
Trung-Nhap so thu hai: 4
Trung-Tong: 30.0
Trung-Chênh lệch: 22.0
Trung-Tích: 104.0
Trung-Thuong: 6.5

```

2.2.6. Write a program to solve:

For simplicity, we only consider the real roots of the equations in this task.

- **The first-degree equation (linear equation) with one variable**

Note: A first-degree equation with one variable can have a form such as $ax + b = 0$ ($a \neq 0$).

You should handle the case where the user input value 0 for a.

- **The system of first-degree equations (linear system) with two variables**

Note: A system of first-degree equations with two variables x_1 and x_2 can be written as follows.

$$\begin{cases} a_{11}x_1 + a_{12}x_2 = b_1 \\ a_{21}x_1 + a_{22}x_2 = b_2 \end{cases}$$

You should handle the case where the values of the coefficients produce infinitely many solutions and the case where they produce no solution.

Hint:

Use the following determinants:

$$D = \begin{vmatrix} a_{11} & a_{12} & a_{21} & a_{22} \end{vmatrix} = a_{11}a_{22} - a_{21}a_{12} D_1 = \begin{vmatrix} b_1 & a_{12} & b_2 & a_{22} \end{vmatrix} = b_1a_{22} - b_2a_{12} D_2 = \begin{vmatrix} a_{11} & b_1 & a_{21} & b_2 \end{vmatrix} = a_{11}b_2 - a_{21}b_1$$

- **The second-degree equation with one variable**

Note: A second-degree equation with one variable (i.e., quadratic equation) can have a form such as $ax^2 + bx + c = 0$, where x is the variable, and a, b, and c are coefficients ($a \neq 0$).

You should handle the case where the values of the coefficients produce a double root & the case where they produce no root. You should also handle the case where the user input value 0 for a.

Hint:

Use the discriminant $\Delta = b^2 - 4ac$

Kết quả : (Source code : src/Lab01/Bai2_2_6.java)

```

1 package Lab01;
2 import java.util.Scanner;
3 //Đỗ Đình Trung - Bài 2.2.6
4 public class Bai2_2_6 {
5     //Hàm giải phương trình bậc nhất
6     public static void linear_equation(double a, double b) {
7         if(a == 0) {
8             if(b == 0) {
9                 System.out.println("Trung-Phuong trình co vo so nghiem");
10            }
11            else
12                System.out.println("Trung-Phuong trình vo nghiem");
13        }
14        else {
15            System.out.println("Trung-Phuong trình co nghiem la: x = " + (-b / a));
16        }
17    }
18    //Hàm giải hệ phương trình bậc nhất
19    public static void linear_system(double a11, double a12, double a21, double a22, double b1, double b2) {
20        double D = a11 * a22 - a21 * a12;
21        double D1 = b1 * a22 - b2 * a12;
22        double D2 = a11 * b2 - a21 * b1;
23        if(D == 0) {
24            if(D1 == 0 && D2 == 0) {
25                System.out.println("Trung-He phuong trình co vo so nghiem");
26            }
27            else {
28                System.out.println("Trung-He phuong trình vo nghiem");
29            }
30        }
31    }
32 }

```

Problems Javadoc Declaration Console X

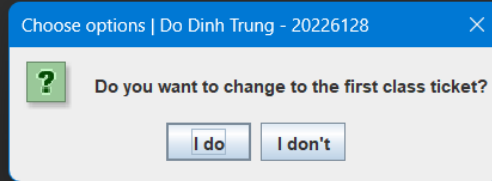
Bai2_2_6 [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (21:44:55 30 thg 9, 2024) [pid: 14344]

Trung-Chon loai phuong trình:
 Trung-1: Phuong trình bậc nhất
 Trung-2: He phuong trình bậc nhất
 Trung-3: Phuong trình bậc hai 1 an
 Trung-4: Exit
 1
 Trung-Nhap cac he so
 Trung-a: 3
 Trung-b: 15
 Trung-Phuong trình co nghiem la: x = -5.0

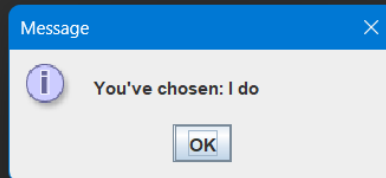
6.1 Write, compile and run the ChoosingOption program:

Kết quả : (Source code : src/Lab01/ChoosingOption.java)

```
1 package Lab01;
2 import javax.swing.JOptionPane;
3
4 public class ChoosingOption {
5     public static void main(String[] args) {
6         // Tùy chỉnh các lựa chọn nút
7         Object[] options = { "I do", "I don't" };
8         // Hiển thị hộp thoại với lựa chọn tùy chỉnh
9         int option = JOptionPane.showOptionDialog(null,
10            "Do you want to change to the first class ticket?", "Choose options | Do Dinh Trung - 20226128"
11            JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE, null, options, options[0]);
12         // Hiển thị kết quả người dùng đã chọn
13         JOptionPane.showMessageDialog(null,
14            "You've chosen: " + (option == JOptionPane.YES_OPTION ? "I do" : "I don't"));
15         System.exit(0);
16     }
17 }
18
```



```
1 package Lab01;
2 import javax.swing.JOptionPane;
3
4 public class ChoosingOption {
5     public static void main(String[] args) {
6         // Tùy chỉnh các lựa chọn nút
7         Object[] options = { "I do", "I don't" };
8         // Hiển thị hộp thoại với lựa chọn tùy chỉnh
9         int option = JOptionPane.showOptionDialog(null,
10            "Do you want to change to the first class ticket?", "Choose options | Do Dinh Trung - 20226128"
11            JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE, null, options, options[0]);
12         // Hiển thị kết quả người dùng đã chọn
13         JOptionPane.showMessageDialog(null,
14            "You've chosen: " + (option == JOptionPane.YES_OPTION ? "I do" : "I don't"));
15         System.exit(0);
16     }
17 }
18
```



6.2 Write a program for input/output from keyboard

Kết quả : (Source code : src/Lab01/InputFromKeyboard.java)

```
1 package Lab01;
2 import java.util.Scanner;
3 public class InputFromKeyboard {
4     public static void main(String[] args) {
5         Scanner keyboard = new Scanner(System.in);
6
7         System.out.println("What's yours name?");
8         String strName = keyboard.nextLine();
9         System.out.println("How old are you?");
10        int iAge = keyboard.nextInt();
11        System.out.println("How tall are you (m)?");
12        double dHeight = keyboard.nextDouble();
13
14        System.out.println("Mrs/Ms." + strName + ", " + iAge + " years old. " + "Your heigl
15    }
16 }
17 }
18 }
```

Problems Javadoc Declaration Console X

<terminated> InputFromKeyboard [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (22:01:39 30 thg 9, 2024 – 22:01:48) [pid: 33964]

What's yours name?
Do Đình Trung
How old are you?
20
How tall are you (m)?
1,8
Mrs/Ms.Do Đình Trung, 20 years old. Your height is 1.8.

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

Kết quả : (Source code : src/Lab01/Triangle.java)

```
1 package Lab01;
2
3 import java.util.Scanner;
4
5 public class TrianglePattern {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8         // Nhập chiều cao của tam giác
9         System.out.print("Trung-Nhap chiều cao tam giac: ");
10        int n = scanner.nextInt();
11        // Vẽ tam giác
12        for (int i = 1; i <= n; i++) {
13            // In khoảng trắng trước các dấu sao để căn giữa
14            for (int j = 1; j <= n - i; j++) {
15                System.out.print(" ");
16            }
17            // In dấu sao
18            for (int k = 1; k <= 2 * i - 1; k++) {
19                System.out.print("*");
20            }
21            // Xuống dòng sau khi in xong một dòng sao
22            System.out.println();
23        }
24        // Đóng scanner để giải phóng tài nguyên
25        scanner.close();
26    }
27 }
```

Problems Javadoc Declaration Console X

<terminated> TrianglePattern [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (22:09:04 30 thg 9, 2024 – 22:09:08) [pid: 40228]

Trung-Nhap chiều cao tam giac: 5

```
*
***
*****
*****
*****
```

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.

Kết quả : (Source code :src/Lab01/DaysInMonth.java)

```

1 package Lab01;
2
3 import java.util.Scanner;
4
5 public class DaysInMonth {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8         String monthInput;
9         int year;
10
11         // Mảng chứa các tháng đầy đủ và viết tắt
12         String[] fullMonths = {"January", "February", "March", "April", "May", "June", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"};
13         String[] shortMonths = {"Jan.", "Feb.", "Mar.", "Apr.", "May", "Jun.", "Jul.", "Aug.", "Sep.", "Oct.", "Nov.", "Dec."};
14         String[] threeLetterMonths = {"Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"};
15
16         // Nhập năm cho đến khi hợp lệ
17         while (true) {
18             System.out.print("Nhap nam: ");
19             String yearInput = scanner.nextLine().trim(); // Đọc vào dạng chuỗi
20
21             if (!yearInput.matches("\\d+")) { // Kiểm tra xem đầu vào có phải là số không
22                 System.out.println("Nam không hợp lệ. Vui lòng nhập lại.");
23                 continue; // Lặp lại nếu đầu vào không hợp lệ
24             }
25
26             year = Integer.parseInt(yearInput);
27
28             // Nhập tháng cho đến khi hợp lệ
29             while (true) {
30                 System.out.print("Nhap thang (ten thang, viet tat, hoac so): ");
31                 monthInput = scanner.nextLine().trim();
32
33                 boolean isValid = false;
34                 for (String month : fullMonths) {
35                     if (month.equalsIgnoreCase(monthInput)) {
36                         isValid = true;
37                     }
38                 }
39                 for (String month : shortMonths) {
40                     if (month.equalsIgnoreCase(monthInput)) {
41                         isValid = true;
42                     }
43                 }
44                 for (String month : threeLetterMonths) {
45                     if (month.equalsIgnoreCase(monthInput)) {
46                         isValid = true;
47                     }
48                 }
49                 if (!isValid) {
50                     System.out.println("Thang không hợp lệ. Vui lòng nhập lại.");
51                     continue;
52                 }
53             }
54
55             // Tính số ngày trong tháng
56             int daysInMonth = 0;
57             for (int i = 0; i < fullMonths.length; i++) {
58                 if (fullMonths[i].equalsIgnoreCase(monthInput)) {
59                     daysInMonth = fullMonths[i].length() - 1;
60                     break;
61                 }
62             }
63
64             // In kết quả
65             System.out.println("Thang " + monthInput + ", Nam " + year + " co " + daysInMonth + " ngay.");
66         }
67     }
68 }

```

Problems Javadoc Declaration Console ×

<terminated> DaysInMonth [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (22:43:57 30 thg 9, 2024 – 22:44:05) [pid: 2340]

Nhap nam: 2024

Nhap thang (ten thang, viet tat, hoac so): Oct

Thang 10, Nam 2024 co 31 ngay.

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

Kết quả : (Source code : src/Lab01/SortArray.java)

```
1 package Lab01;
2 import java.util.Arrays;
3 import java.util.Scanner;
4 public class SortArray {
5     public static void main(String[] args) {
6         Scanner sc = new Scanner(System.in);
7         System.out.print("Nhap so phan tu cua mang: ");
8         int n = sc.nextInt();
9         double sum = 0;
10        double average;
11        System.out.print("Nhap mang: ");
12        int[] a = new int[n];
13        for(int i = 0; i < n; i++) {
14            a[i] = sc.nextInt();
15            sum += a[i];
16        }
17        Arrays.sort(a);
18        average = sum/a.length;
19        System.out.println("Mang da duoc sap xep la: " + Arrays.toString(a));
20        System.out.println("Tong cac gia tri trong mang la: " + sum);
21        System.out.println("Trung binh cong cac gia tri trong mang la: " + a
```

Problems Javadoc Declaration Console ×

<terminated> SortArray [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (08:27:24 1 thg 10, 2024 – 08:27:31) [pid: 28580]

Nhap so phan tu cua mang: 5
Nhap mang: 1 5 2 6 7
Mang da duoc sap xep la: [1, 2, 5, 6, 7]
Tong cac gia tri trong mang la: 21.0
Trung binh cong cac gia tri trong mang la: 4.2

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

Kết quả : (Source code : src/Lab01/SumMatrix)

```
1 package Lab01;
2
3 import java.util.Scanner;
4
5 public class SumMatrix {
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         System.out.print("Nhap so hang cua ma tran: ");
9         int n = sc.nextInt();
10        System.out.print("Nhap so cot cua ma tran: ");
11        int m = sc.nextInt();
12        int[][] a = new int[n][m];
13        int[][] b = new int[n][m];
14        int[][] c = new int[n][m];
15        System.out.println("Nhap ma tran thu nhat: ");
16
17        for (int i = 0; i < n; i++) {
18            for (int j = 0; j < m; j++) {
19                a[i][j] = sc.nextInt();
20            }
21        }
22
23        System.out.println("Nhap ma tran thu hai: ");
24        for (int i = 0; i < n; i++) {
25            for (int j = 0; j < m; j++) {
26                b[i][j] = sc.nextInt();
27            }
28        }
29
30        for (int i = 0; i < n; i++) {
31            for (int j = 0; j < m; j++) {
32                c[i][j] = a[i][j] + b[i][j];
33            }
34        }
35
36        System.out.println("Ma tran tong cua hai ma tran la:");
37        for (int i = 0; i < n; i++) {
38            for (int j = 0; j < m; j++) {
39                System.out.print(c[i][j] + " ");
40            }
41            System.out.println();
42        }
43    }
44 }
```

Problems Javadoc Declaration Console ×

<terminated> SumMatrix [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (08:46:54 1 thg 10, 2024 – 08:47:14) [pid: 1476]

Nhap so hang cua ma tran: 3
Nhap so cot cua ma tran: 3
Nhap ma tran thu nhat:
1 2 3
4 5 6
7 8 9
Nhap ma tran thu hai:
1 4 7
2 5 8
3 6 9
Ma tran tong cua hai ma tran la:
2 6 10
6 10 14
10 14 18