#### Họ và tên: Hoàng Văn Kiên

#### MSSV:20205089

# 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 // 2.2.1 Write, compile the first Java application:
2 // Example 1 : HelloWorld.java
3 // Text - printing program
4 // HoangVanKien-20205089

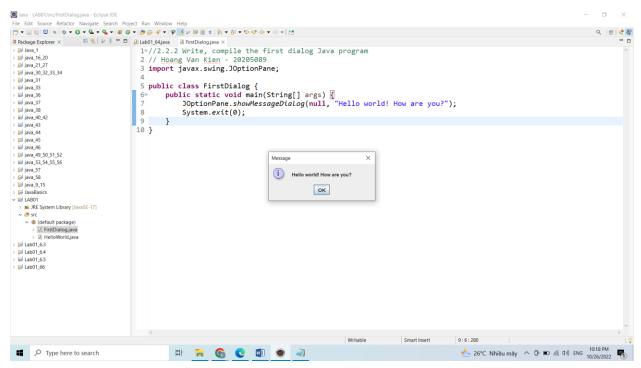
5 public class HelloWorld {
7  public static void main(String[] args) {
        System.out.println("Xin chào \n các bạn!");
        System.out.println("Hello \t world!");
      } // end of method main
11 }
12
```

Kết quả

```
1 // 2.2.1 Write, compile the first Java application:
  2 // Example 1 : HelloWorld.java
  3 // Text - printing program
  4 // HoangVanKien-20205089
  6 public class HelloWorld {
  7⊝
         public static void main(String[] args) {
  8
             System.out.println("Xin chào \n các bạn!");
             System.out.println("Hello \t world!");
  9
 10
         } // end of method main
 11 }
 12
                                                 Declaration Console X
<terminated> HelloWorld [Java Application] C:\Users\pc\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220
Xin chào
 các ban!
Hello
          world!
```

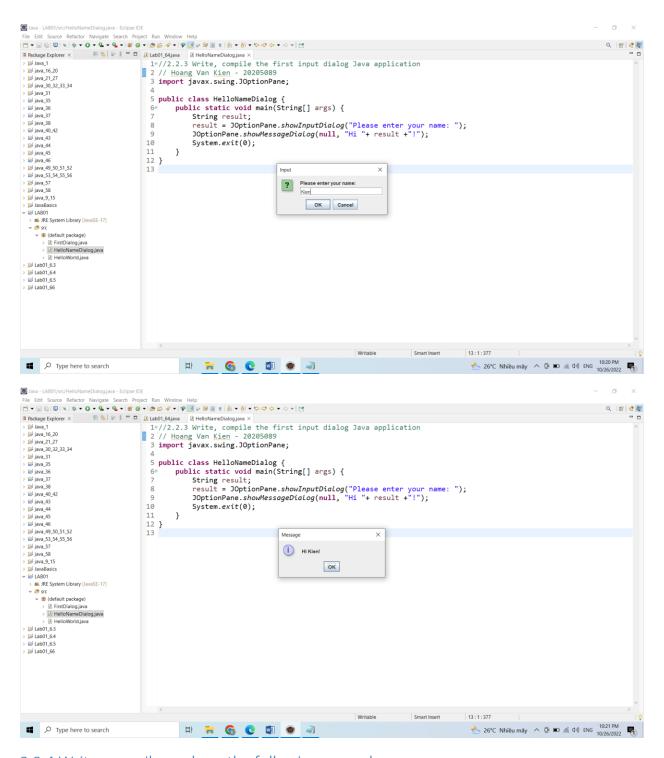
#### 2.2.2 Write, compile the first dialog Java program

Ket qua



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

```
1⊕//2.2.3 Write, compile the first input dialog Java application
2 // Hoang Van Kien - 20205089
 3 import javax.swing.JOptionPane;
 4
 5 public class HelloNameDialog {
       public static void main(String[] args) {
 6⊜
 7
           String result;
 8
           result = JOptionPane.showInputDialog("Please enter your name: ");
 9
           JOptionPane.showMessageDialog(null, "Hi "+ result +"!");
10
           System.exit(0);
11
       }
12 }
13
```



2.2.4 Write, compile, and run the following example:

```
1^{\circ}//2.2.4 Write, compile, and run the following example:
    2 //Hoang Van Kien - 20205089
    3 import javax.swing.JOptionPane;
    5 public class ShowTwoNumbers {
    6⊜
                              public static void main(String[] args) {
                                               String strNum1, strNum2;
String strNotification = " you've just enterred:";
    8
                                               9
10
11
                                               strNum2 = JOptionPane.showInputDialog(null,
12
13
                                                                                   "Please input the second number: " , "Input the first number", JOptionPane.INFORMATION_MESSAGE);
14
                                                 strNotification +=strNum2;
                                                JOptionPane.showMessageDialog(null, strNotification,
15
16
                                                                                   "Show two numbers", JOptionPane. INFORMATION_MESSAGE);
17
                                                System.exit(0);
18
                              }
19 }
20
  Java - LAB01/src/ShowTwoNumbers.java - Eclipse IDE
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  # Package Explorer × □ % □ 8 □ □ ② Lab01_64.java ② ShowTwoNumbers.java ×
    1^{\circ}//2.2.4 Write, compile, and run the following example: 2 //Hoang Van Kien - 20205089
                                                                                                            3 import javax.swing.JOptionPane;
                                                                                                            5 public class ShowTwoNumbers
                                                                                                                             public static void main(String[] args) {
   String strNum1, strNum2;
   String strNotification = " you've just enterred:";

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iava_46
       Input the first number", JOptionPane.INFORMATION_MESSAGE);
                                                                                                                                              strNotification +=str
    > | java_53_54_

> | java_57

> | java_58

> | java_9_15

> | java_9_15

> | JavaBasics

> | LAB01
                                                                                                                                             JOptionPane.showMesse just enterred:1and2
                                                                                                                                                                                                                                                                                                          ation,
MATION_MESSAGE);
                                                                                                                                                                            'Show two nur
                                                                                                                                                                                                                                                       ОК
                                                                                                                                             System.exit(0);
                                                                                                                             }
      > M. JRE System Library [JavaSE-17]

> M. JRE System Library [JavaSE-17]

> Src

- Gefault package)

> D. FirstDialog.java

> D. HelloNameDialog.java

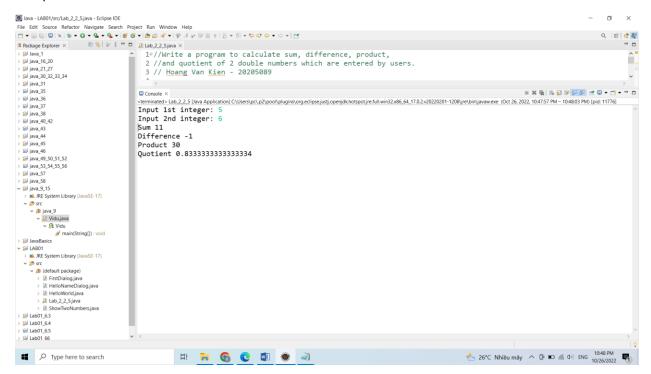
> D. HelloWorld.java

> D. ShowTwoNumbers.java
                                                                                                        19 }
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       2 Lab01_6.4
        ≥ Lab01 66
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```

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

```
l<sup>⊕</sup>//Write a program to calculate sum, difference, product,
2 //and quotient of 2 double numbers which are entered by users.
3 // Hoang Van Kien - 20205089
import java.util.Scanner;
public class Lab_2_2_5 {
         public static void main(String[] args)
3
              Scanner in = new Scanner(System.in);
)
              System.out.print("Input 1st integer: ");
)
              int firstInt = in.nextInt();
              System.out.print("Input 2nd integer: ");
              int secondInt = in.nextInt();
              System.out.println("Sum " + (firstInt + secondInt) );
              System.out.println("Difference " + (firstInt - secondInt) );
              System.out.println("Product " + (firstInt * secondInt) );
              System.out.println("Quotient " + ((double)firstInt/secondInt) );
3
         }
L }
```

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

```
Java - LAB01/src/GiaiPTBacNhat.java - Eclipse IDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         o ×
Q 🔡 😤 🐉
  □ Package Explorer × □ S □ □ □ *GiaiPTBacNhat.java ×
                                                                                                           1 // 2.2.6 Hoang Van Kien - 20205089
2 import java.util.Scanner;
    ≥ 16 20 ≥ 3 iava 16 20
     3 public class GiaiPTBacNhat {
4    public static void main(String[] args) {
                                                                                                                                                 // PTBN: ax+b = 0
/*
                                                                                                                                                        * Neu a = 0
      ≥ java_37
                                                                                                                                                       * Neu b = 0 => PT Vô số nghiệm

* Neu b != 0 => PT Vô nghiệm

* Neu a!=0
      ⊯ java 38
      Co nghiem x = -b/a
                                                                                                                                                   double a,b,x;
Scanner sc = new Scanner(System.in);
      ⊯ java 57
                                                                                                                                                   System.out.println("Nhap a = ");
a = sc.nextDouble();
System.out.println("Nhap b = ");
    > ﷺ java_58

> ﷺ java_9_15

> ﷺ javaBasics

> ﷺ LABO1

> ﷺ JRE System Library [JavaSE-17]

> ﷺ (default angles)
                                                                                                                                                          = sc.nextDouble();
                                                                                                                                                  if(a==0) {
    // <u>Tinh</u> huong a = 0
            if(b==0) {
    // Tinh huong a=0 va b=0
                       FirstDialog.java
                  HelloNameDialog.java
                                                                                                                                                                                 System.out.println("Phương trình vô số nghiệm!");
                       HelloWorld.java
                                                                                                                                                                                // Tinh huong a=0 va b!=0
System.out.println("Phương trình vô nghiệm!");
  > $\int \tab01_6.3
                                                                                                                                                 }else {
    // <u>Tinh huong</u> a !=0
    x = -b/a;
    reintln('
   > 35 Lab01_6.4
      > 12 Lab01 66
                                                                                                                                                                  System.out.println("Con nghiem x = "+ x);

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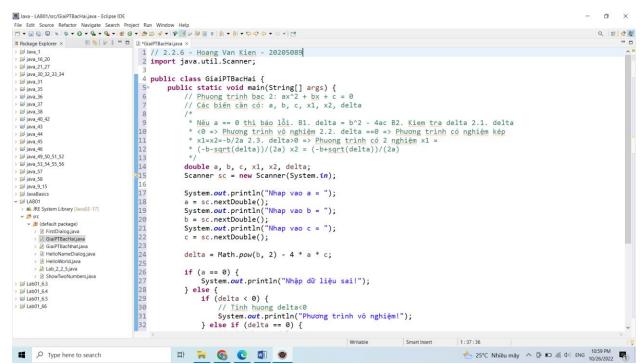
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#### Giai Phuong trinh bậc 2



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 I Package Explorer × □ % □ □ I *GiaiPTBacHai,java ×
                                                               Scanner sc = new Scanner(System.in);
                                                                System.out.println("Nhap vao a = ");
                                                                a = sc.nextDouble();
System.out.println("Nhap vao b = ");
  ≅ java_35
                                                               b = sc.nextDouble();
System.out.println("Nhap vao c = ");
  iava 36 ₪
  iava 37
                                                                c = sc.nextDouble();
                                                                delta = Math.pow(b, 2) - 4 * a * c;
                                                                if (a == 0) {
  ₩ java 49 50 51 52
                                                                      System.out.println("Nhập dữ liệu sai!");
  ≅ java_57.

∌ java_57.

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> M.RE System Library (JavaSE-17).
                                                               } else {
    if (delta < 0) {
                                                                            // Tinh huong delta<0
System.out.println("Phương trình vô nghiệm!");
                                                                     } else if (delta == 0) {
    // <u>Tinh huong</u> delta==0
    x1 = -b / (2 * a);
     (default package)

FirstDialog,java

GiaiPTBacHai,java

GiaiPTBacNhat,java

HelloNameDialog,java

HelloWordd,java
                                                                             System.out.println("Phương trình có nghiệm kép x1=x2=" + x1);
                                                                     } else {
// Tinh huong delta>0
                                                                             x1 = (-b - Math.sqrt(delta)) / (2 * a);
x2 = (-b + Math.sqrt(delta)) / (2 * a);
                                                                            System.out.println("Phương trình có nghiệm");
System.out.println("x1=" + x1);
System.out.println("x2=" + x2);
 > 3 Lab01_6.3
  }
                                                         }
                                              46 }
                                                                                                                                                                         H 🙀 🔞 C 🗊 🏶
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#### Giai hệ Phuong trình

```
Java - LAB01/src/GiaiHePhuongTrinh.java - Eclipse IDE
                                                                                                                                                                                                                                                                                        ø
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                                                                                                                                                                                                                                                                                     Q 🔡 😢 🚭
 1 // 2.2.6 - Hoang Van Kien - 20205089
2 import java.util.Scanner;
3 public class GiaiHePhuongTrinh {
4* public static void main(String[] args) {
 > 🞏 Java_1
  ⇒ 16 20
  Scanner sc = new Scanner(System.in);
double a1,a2,b1,b2,c1,c2;
                                                                                // Nhāp phương trình
System.out.println("Nhap he so alx + bly = c1, a2x + b2y =c2");
System.out.println("Nhap al = ");
al = sc.nextDouble();
   ≥ java_37
   ¡ java_38

    iava 40 42

                                                          10
                                                           11
                                                                                 System.out.print("Nhap b1 = ");
b1 = sc.nextDouble();
                                                                                 System.out.print("Nhap c1 = ");
c1=sc.nextDouble();
                                                           13

iava_53_54_55_56

java_57

java_57
                                                           15
                                                                                 System.out.print("Nhap a2 = ");
a2=sc.nextDouble();
                                                                                 System.out.print("Nhap b2 = ");
b2=sc.nextDouble();
System.out.print("Nhap c2 = ");
                                                                                 c2=sc.nextDouble();
      ✓ 借 (default package)
                                                                                 //Giải hệ phương trình bằng định thức double D = a1*b2-a2*b1;

    ☑ FirstDialog.java
    ☑ GiaiPtBacHai.java
    ☑ GiaiPtBacHai.java
    ☑ GiaiPtBacNhat.java
    ☑ HelloNameDialog.java
    ☑ HelloWorld.java

                                                                               double D = a1*b2-a2*b1;
double Dx = c1*b2-c2*b1;
double Dy = a1*c2-a2*c1;
if(D=0 && Dx == 0 && Dy == 0)
    System.out.println("He phuong trinh co vo so nghiem\n");
else if((D=0 && Dx!= 0) || (D=0 && Dy!= 0))
    System.out.println("He phuong trinh vo nghiem");
else System.out.println("x: " + Math.ceil((Dx/D) * 1000)/1000 + " y: "
    + Math.ceil((Dy/D) * 1000)/1000 + "\n");
                                                           23
                                                           25
            Lab_2_2_5.java
            ShowTwoNumbers.java
 > 26 Lab01 6.3
   ≅ Lab01 6.4
                                                           29
30
                                                           31
                                                                         }
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```

#### 6 .Exercies

6.1 Write, compile and run the ChoosingOption program:

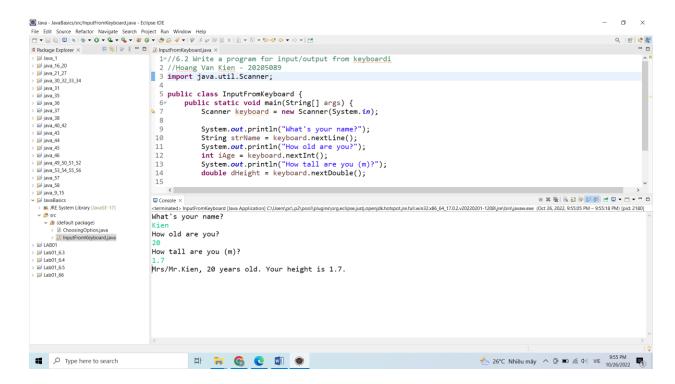
```
 {\color{red} \underline{\textbf{I}} } \ \textbf{ChoosingOption.java} \ \times \\
JavaBasics/src/ChoosingOption.java pile and run the ChoosingOption program:
 2 //Hoang Van Kien - 20205089
 4 import javax.swing.JOptionPane;
 6 public class ChoosingOption {
        public static void main(String[] args) {
 8
             int option = JOptionPane.showConfirmDialog(null, "Do you want to change to the first class ticket?");
 9
10
             JOptionPane.showMessageDialog(null, "You've chosen: " +
11
             (option == JOptionPane.YES_OPTION?"Yes":"No"));
12
             System.exit(0);
13
14 }
15
```

```
10//6.1 Write, compile and run the ChoosingOption program:
2 //Hoang Van Kien - 20205089
4 import javax.swing.JOptionPane;
6 public class ChoosingOption {
      public static void main(String[] args) {
8
          int option = JOptionPane.showConfirmDialog(null, "Do you want to change to the first class ticket?");
9
10
           JOptionPane.showMessageDialog(null, "You've chosen: " +
           (option == JOptionPane.YES_OPTION?"Yes":"No"));
11
12
           System.exit(0);
13
       }
                              Select an Option
14 }
                               Po you want to change to the first class ticket?
                                     Yes No Cancel
```

# 6.2 Write a program for input/output from keyboardi

```
10//6.2 Write a program for input/output from keyboardi
2 //Hoang Van Kien - 20205089
3 import java.util.Scanner;
5 public class InputFromKeyboard {
      public static void main(String[] args) {
          Scanner keyboard = new Scanner(System.in);
8
9
          System.out.println("What's your name?");
0
          String strName = keyboard.nextLine();
1
          System.out.println("How old are you?");
2
          int iAge = keyboard.nextInt();
3
          System.out.println("How tall are you (m)?");
4
          double dHeight = keyboard.nextDouble();
5
          System.out.println("Mrs/Mr." + strName + ", " + iAge + " years old. " +
7
          "Your height is " + dHeight + ".");
8
9
      }
0 }
```

# Ket qua:



6.3 Write a program to display a triangle with a height of n stars (\*), n is entered by users. E.g. n=5:

\*

Page 15 of 17

\*\*\*

```
1⊕//6.3 Write a program to display a triangle with a height of n stars (*),
 2 //n is entered by users.
 3 // Hoang Van Kien - 20205089
4 import java.util.Scanner;
 5 public class Lab01_6 {
 6⊜
            public static void printTriangle(int n)
 7
 8
                   // Vong lap in
 9
                      for (int i=0; i<n; i++)</pre>
10
11
                            for (int j=n-i; j>1; j--)
12
13
                                 // In khoang trang
                                  System.out.print(" ");
14
15
16
                            for (int j=0; j<=i; j++ )</pre>
17
                                   // In dau *
18
                                  System.out.print("* ");
19
20
21
22
                            System.out.println();
23
                      }
24
                }
25
                public static void main(String args[])
269
27
28
                      Scanner sc = new Scanner(System.in);
29
                      int n = sc.nextInt();
30
                      printTriangle(n);
                }
31
32 }
Ket qua:
Java - Lab01_6.3/src/Lab01_6.java - Eclipse IDE
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                              4 import java.util.Scanner;
5 public class Lab01_6 {
 public static void printTriangle(int n)
 {
// Vong lap in
                                             for (int i=0; i<n; i++)
                                                for (int j=n-i; j>1; j--)
                             11
                                                   // In khoang trang
System.out.print(" ");
                             13
                              14
15
 | java_45
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| java_49_50_51_52
| java_53_54_55_56
| java_57
| java_58
| java_9_15
| java_9_15
                             16
17
                                                 for (int j=0; j<=i; j++ )
                             18
                                                    // In dau *
                             Console ×
~ ₩ LAB01
                                ninated > Lab01_6 [Java Application] C\Users\pc\,p2\poo\\piugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32x86_64_17.0.2x/20220201-1208\jre\binijavaw.exe (Oct 26, 2022, 951:30 PM – 951:35 PM) [pid: 5732]
 > MA JRE System Library [JavaSE-17]

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- Glefault package)
                             Nhap n:
> HelloWorld.java
> B Lab01_6.3
                              * * *
  ■ JRE System Library [JavaSE-17]
```

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

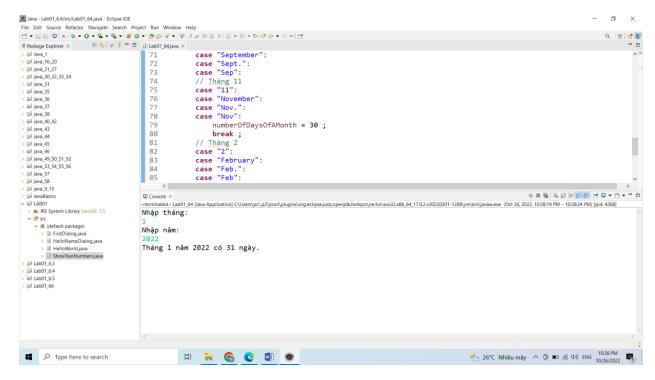
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```
1 import java.util.Scanner;
^3 //6.4 Write a program to display the number of days of a month, which is entered by users (both month and year)
4 //If it is an invalid month/year, ask the user to enter again.
5 // HoangVanKien-20205089
6 public class Lab01_64 {
      public static void main(String[] args) {
8
9
           Scanner sc = new Scanner(System.in);
           // Khai báo tháng năm
10
           int year ;
11
12
           String month;
13
14
           // Khai báo mặc định số ngày trong tháng;
15
           int numberOfDaysOfAMonth = 0;
16
           // Nhập năm và tháng
System.out.println("Nhập tháng: ");
17
18
           month = sc.nextLine();
19
20
           System.out.println("Nhập năm: ");
21
           year = sc.nextInt();
22
23
24
           // Kiểm tra số ngày trong tháng
25
           switch (month) {
26
           // Tháng 1
27
           case "1":
           case "January":
case "Jan.":
28
29
           case "Jan" :
30
           // Tháng 3
31
32
           case "3":
```

```
case "March":
case "Mar.":
case "Mar" :
// Tháng 5
case "5":
case "May":
// Tháng 7
case "7":
case "July":
case "Jul":
// Tháng 8
case "8":
case "August":
case "Aug.":
case "Aug":
// Tháng 10
case "10":
case "October":
case "Oct.":
case "Oct":
// Tháng 12
case "12":
case "December":
case "Dec.":
case "Dec":
     numberOfDaysOfAMonth = 31 ;
     break;
// Tháng 4
case "4":
case "April":
case "Apr.":
```

```
// Tháng 6
 65
            case "6":
            case "June":
 67
            case "Jun":
 68
 69
            // Tháng 9
 70
            case "9":
            case "September":
 71
            case "Sept.":
 72
            case "Sep":
 73
 74
            // Tháng 11
 75
            case "11":
            case "November":
 76
 77
            case "Nov.":
 78
            case "Nov":
 79
                numberOfDaysOfAMonth = 30 ;
 80
                 break ;
 81
            // Tháng 2
            case "2":
 82
            case "February":
 83
            case "Feb.":
 84
 85
            case "Feb":
                if ((year % 400 == 0) || ((year % 4 == 0) && (year % 100 != 0))) {
 86
 87
                     numberOfDaysOfAMonth = 29;
 88
                 } else {
 89
                     numberOfDaysOfAMonth = 28 ;
 90
 91
                 break;
 92
 93
            default:
                 System.out.println("Nhập sai rồi bạn ơi!");
 94
 95
                 break;
          case "November":
16
77
          case "Nov.":
          case "Nov":
78
              numberOfDaysOfAMonth = 30 ;
19
30
          // Tháng 2
31
          case "2":
case "February":
case "Feb.":
32
33
          case "Feb":
₹5
              if ((year % 400 == 0) || ((year % 4 == 0) && (year % 100 != 0))) {
36
37
                  numberOfDaysOfAMonth = 29;
38
               } else {
                  numberOfDaysOfAMonth = 28 ;
39
               break;
1
12
)3
          default:
)4
               System.out.println("Nhập sai rồi bạn ơi!");
)5
               break;
)7
          // In
          System.out.println("Tháng " + month + " năm " + year + " có " + numberOfDaysOfAMonth + " ngày." );
86
19
10
)1
      }
)2
```



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

```
1⊕//6.5 Write a Java program to sort a numeric array,
 2 //and calculate the sum and average value of array elements.
 3 //Hoang Van Kien - 20205089
 4 import java.util.Arrays;
 5
 6 public class Lab01_65 {
       public static void main(String[] args) {
           int[] a = new int[] {2,1,3,4,5};
 8
9
10
           int sum = 0;
           double avg = 0
11
12
           for (int i = 0; i < a.length; i++) {</pre>
13
               sum += a[i];
14
               avg = (double) sum/a.length ;
15
           }
16
17
           System.out.println(Arrays.toString(a));
18
           Arrays.sort(a);
19
           System.out.println(Arrays.toString(a));
20
           System.out.println("Sum: " + sum);
21
           System.out.println("Average: " + avg);
22
       }
23 }
```

```
| Manual Manual
```

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

```
1 import java.util.Scanner;
 3 // 6.6 Write a Java program to add two matrices of the same size.
 4 // HoangVanKien-20205089
 5 public class Lab01_66 {
       public static void main(String[] args) {
 7
 8
           Scanner sc = new Scanner(System.in);
 9
           int m ; // Khai báo hàng
10
           int n ; // Khai báo cột
11
12
           // Nhập số hàng , số cột
13
           System.out.println("Nhập hàng:");
14
           m = sc.nextInt();
15
           System.out.println("Nhập cột:");
16
           n = sc.nextInt();
17
18
           // Khai báo hai ma trận cùng kích thước
19
           int array1[][] = new int[m][n];
20
           int array2[][] = new int[m][n];
21
           int sum[][] = new int[m][n];
22
23
           // Nhập giá trị cho 2 ma trận
24
           for (int i = 0; i < m; i++) {
25
               for (int j = 0; j < n; j++) {
26
                   array1[i][j] = sc.nextInt();
27
               }
28
           }
29
30
           for (int i = 0; i < m; i++) {
31
               for (int j = 0; j < n; j++) {
32
                   array2[i][j] = sc.nextInt();
```

```
ĵ
// In ma trận
System.out.println("Array1: ");
for (int i = 0; i < m; i++) {
    for (int j = 0; j < n; j++) {
        System.out.print(array1[i][j]+"\t");
    System.out.println();
}
System.out.println("Array2: ");
for (int i = 0; i < m; i++) {
    for (int j = 0; j < n; j++) {
        System.out.print(array2[i][j]+"\t");
    System.out.println();
}
// Tinh tong 2 ma tran
for ( int i = 0 ; i < m ; i++ ) {
    for ( int j = 0 ; j < n ; j++ )
         sum[i][j] = array1[i][j] + array2[i][j];
}
  System.out.println("Sum:");
  for ( int i = 0 ; i < m ; i++ )
     for ( int j = 0 ; j < n ; j++ )</pre>
        System.out.print(sum[i][j]+"\t");
```

