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

BÁO CÁO THỰC HÀNH IT3103-744528-2024.1 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:

Figure 1 Code 2.2.1

Kết quả

2.2.2 Write, compile the first dialog Java program

```
package week1;
import javax.swing.JOptionPane;

//Nguxen Irinh Hoang Nguxen 20225656

public class bai2 {
    public static void main(String args[]) {
        System.out.println("Nguyen Trinh Hoang Nguyen 20225656");
        JOptionPane.showMessageDialog(null,"Hello world!How are you?");
        System.exit(0);
    }
}
```

Figure 2 Code 2.2.2

Kết quả

```
1 package week1;
 2 import javax.swing.JOptionPane;
 3 //Nguyen Trinh Hoang Nguyen 20225656
 4 public class bai2 {
        public static void main(String args[]) {
            System.out.println("Nguyen Trinh Hoang Nguyen 20225656");
            JOptionPane.showMessageDiaLog(null, "Hello world!How are you?");
            System.exit(0);
        }
                                      Message
                                                         X
10 }
                                       (i)
                                          Hello world!How are you?
11
                                               ОК
🦹 Problems 🏿 Javadoc 🔼 Declaration 💻 Console 🗵
Nguyen Trinh Hoang Nguyen 20225656
```

2.2.3 Write, compile the first input dialog Java application

```
package week1;
import javax.swing.JOptionPane;

//Nguven Irinh Hoans Nguven 20225656
public class bai3 {
    public static void main(String args[]) {
        System.out.println("Nguyen Trinh Hoang Nguyen 20225656");
        String result;
        result = JOptionPane.showInputDialog("Please enter your name:");
        JOptionPane.showMessageDialog(null,"Hi " + result +" !");
        System.exit(0);
}

System.exit(0);
}
```

Figure 3 Code 2.2.3

Kết quả

```
1 package week1;
 2 import javax.swing.JOptionPane;
 4 public class bai3 {
       public static void main(String args[]) {
            System.out.println("Nguyen Trinh Hoang Nguyen 20225656");
            String result;
            result = JOptionPane.showInputDialog("Please enter your name:");
            JOptionPane.showMessag Input
                                                            + result +" !");
            System.exit(0);
                                          Please enter your name
11
       }
                                          Nguyen Trinh Hoang Nguyen
12 }
                                            OK Cancel
13
Problems @ Javadoc @ Declaration 📮 Console ×
                                                                                        ■ × ¾
Nguyen Trinh Hoang Nguyen 20225656
```

```
1 package week1;
 2 import javax.swing.JOptionPane;
 3 //Nguyen Trinh Hoang Nguyen 20225656
        public static void main(String args[]) {
            System.out.println("Nguyen Trinh Hoang Nguyen 20225656");
            String result;
            result = JOptionPane.showInputDialog("Please enter your name:");
            JOptionPane.showMessag
                                                          + result +" !");
            System.exit(0);
                                      (i)
                                        Hi Nguyen Trinh Hoang Nguyen!
11
12 }
                                              OK
🥵 Problems 🏿 Javadoc 🔼 Declaration 🗏 Console 🗵
Nguyen Trinh Hoang Nguyen 20225656
```

2.2.4 Write, compile, and run the following example:

Figure 4 Code 2.2.4

```
package week1;
  import javax.swing.JOptionPane;
 String strNum1, strNum2;
String strNotification = "You've just entered: ";
       strNotification += strNum1 + " add
       Input the second number
                                                          Please input the second number:
             OptionPane.INFORMATION_MESSAGE);
                                                          2004
       strNotification += strNum2;
                                                           OK Cancel
       🔐 Problems 🏿 Javadoc 🔼 Declaration 💂 Console 🗵
Nguyen Trinh Hoang Nguyen 20225656
```

Kết quả:

```
1 package week1;
 3 import javax.swing.JOptionPane;
 4 //Nguyen Trinh Hoang Nguyen 20225656
5 public class bai4 {
6 public static void main(String args[]) {
          System.out.println("Nguyen Trinh Hoang Nguyen 20225656");
          String strNum1, strNum2;
String strNotification = "You've just entered: ";
          JOptionPane.INFORMATION_MESSAGE);
          strNotification += strNum1 + " add ";
                                                                                Show two numbers
          You've just entered: 1308 add 2004
                  JOptionPane.INFORMATION_MESSAGE);
           strNotification += strNum2;
                                                                                     Yes No Cancel
           JOptionPane.showConfirmDialog(null, strNotification,
                  "Show two numbers", JOptionPane. INFORMATION_MESSAGE);
🥋 Problems 🏿 Javadoc 🔼 Declaration 🗏 Console 🗵
Nguyen Trinh Hoang Nguyen 20225656
```

BÀI TẬP

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

```
1 package week1;
2 import java.util.Scanner;
 3 //Nguyen Trinh Hoang Nguyen 20225656
4 public class bai5 {
5 public static void main(String args[]) {
       Scanner scanner = new Scanner(System.in);
       double number1 = scanner.nextDouble();
       double number2 = scanner.nextDouble();
       scanner.close();
      System.out.println("Tong 2 so :" + (number1+number2));
System.out.println("So thu 1 tru so thu 2 :" +(double)(number1-number2));
      System.out.println("So thu 2 tru so thu 1 : " + (double)(number2-number1));
12
13
       System.out.println("Tich 2 so :" + number1*number2);
       System.out.println("So thu 1 chia so thu 2 :" + number1/number2);
       System.out.println("So thu 1 chia so thu 2 :" + number2/number1);
17 }
```

Figure 5 Code 2.2.5

TH1: Nhập 2 số 1 và 2:

```
1
2
Tong 2 so :3.0
So thu 1 tru so thu 2 :-1.0
So thu 2 tru so thu 1 :1.0
Tich 2 so :2.0
So thu 1 chia so thu 2 :0.5
So thu 1 chia so thu 2 :2.0
```

TH2: Nhập 2 số 1000 và 9823:

```
1000

9823

Tong 2 so :10823.0

So thu 1 tru so thu 2 :-8823.0

So thu 2 tru so thu 1 :8823.0

Tich 2 so :9823000.0

So thu 1 chia so thu 2 :0.10180189351521939

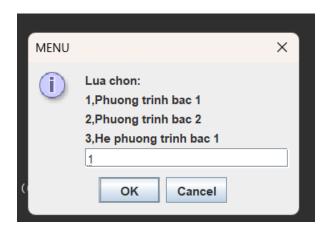
So thu 1 chia so thu 2 :9.823
```

- 2.2.6 Write a program to solve the first-degree equation (linear equation) with one variable, the system of first-degree equations (linear system) with two variables, the second-degree equation with one variable.
- Giải phương trình bậc nhất 1 ẩn

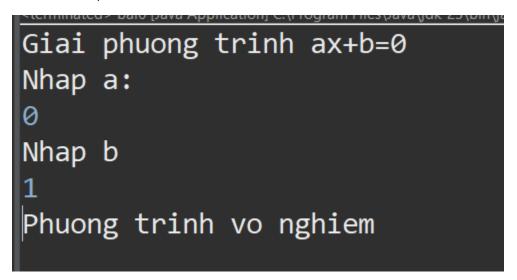
```
package week1;
  //Nguyen Trinh Hoang Nguyen 20225656
0 import java.util.Scanner;

    public class bai6 {
      lic class bai6 {
public static void main(String args[])
           String tmp = JOptionPane.showInputDialog(null,"Lua chon:\n"
                   + "1,Phuong trinh bac 1\n"
+ "2,Phuong trinh bac 2\n"
                   JOptionPane.INFORMATION_MESSAGE);
           int select = Integer.parseInt(tmp);
           if(select == 1)
               Scanner scanner1 = new Scanner(System.in);
              System.out.println("Giai phuong trinh ax+b=0\n"
               + "Nhap a:");
double a = scanner1.nextDouble();
               System.out.println("Nhap b");
               double b = scanner1.nextDouble();
               scanner1.close();
               if(a == 0 )
                    if (b == 0)
                        System.out.println("Phuong trinh co vo so nghiem");
                        System.out.println("Phuong trinh vo nghiem");
                    System.out.println("Phuong trinh tren co nghiem duy nhat la :" + ((-b)/a));
```

Figure 6 Code 2.2.6



TH1: a= 0 b= 1;



TH2: a = 0, b=0

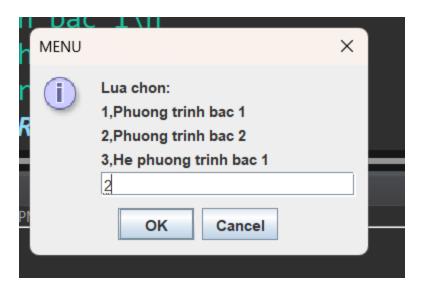
```
Giai phuong trinh ax+b=0
Nhap a:
Nhap b
0
Phuong trinh co vo so nghiem
```

TH3: a= 3, b =10:

```
Giai phuong trinh ax+b=0
Nhap a:
3
Nhap b
10
Phuong trinh tren co nghiem duy nhat la :-3.33333333333333
```

- Giải phương trình bậc hai 1 ẩn:

```
}else if(select == 2)
   double a = scanner2.nextDouble();
   System.out.println("Nhap b");
   double b = scanner2.nextDouble();
   System.out.println("Nhap c");
   double c = scanner2.nextDouble();
   scanner2.close();
   if(a==0)
               System.out.println("Phuong trinh co vo so nghiem");
              System.out.println("Phuong trinh vo nghiem");
           System.out.println("Phuong trinh co 1 nghiem duy nhat:"+(-c/b));
       double delta = b*b-4*a*c;
       if(delta<0)
           System.out.println("Phuong trinh vo nghiem");
           if(delta == 0)
              System.out.println("Phuong trinh co 1 nghiem kep:"+ (-b/(2*a)));
           }else if(delta > 0)
              System.out.println("Phuong trinh co 2 nghiem phan biet \n x1:"+
           (-b+Math.sqrt(delta))/(2*a)+
           "\n x2:"+ (-b-Math.sqrt(delta))/(2*a));
```



TH1:a = 0 (như phương trình bậc 1), b = 0, c = 1:

```
Ciai phuong trinh ax^2+bx+c=0

Nhap a:

Nhap b

Nhap c

Nhap c

Phuong trinh vo nghiem
```

TH2: a = 1, b = 1, c = 1:

```
Giai phuong trinh ax^2+bx+c=0
Nhap a:

Nhap b

Nhap c

Here of the control of the
```

TH3: a = 1, b = 2, c = 1:

```
Giai phuong trinh ax^2+bx+c=0

Nhap a:

1

Nhap b

2

Nhap c

1

Phuong trinh co 1 nghiem kep :-1.0
```

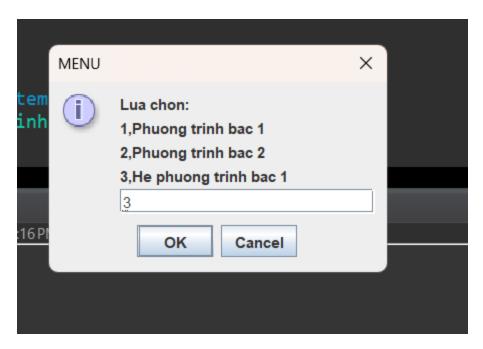
TH4: a = 1, b = -4, c = 3

```
Giai phuong trinh ax^2+bx+c=0
Nhap a:

1
Nhap b
-4
Nhap c
3
Phuong trinh co 2 nghiem phan biet
x1:3.0
x2:1.0
```

- Giải hệ phương trình bậc nhất 2 ẩn:

```
}else if (select == 3)
   Scanner scanner3 = new Scanner(System.in);
   System.out.println("Nhap b1");
   double b1 = scanner3.nextDouble();
   System.out.println("Nhap c1");
double c1 = scanner3.nextDouble();
   System.out.println("Nhap a2");
   double a2 = scanner3.nextDouble();
   System.out.println("Nhap b2");
   double b2 = scanner3.nextDouble();
    System.out.println("Nhap c2");
   double c2 = scanner3.nextDouble();
   scanner3.close();
   double D = a1*b2 - a2*b1;
   double Dx = c1*b2 - c2*b1;
double Dy = a1*c2 - a2*c1;
   if(D != 0)
       System.out.println("He phuong trinh co nghiem duy nhat x:" + (Dx/D)+ " y| "+(Dy/D));
   }else if(D == 0 &&(Dx != 0 || Dy != 0))
       System.out.println("He phuong trinh vo nghiem");
    }else if(D ==0 && Dx == 0 && Dy == 0)
       System.out.println("He phuong trinh vo so nghiem");
```



TH1: a1 = 1, b1 = 2, c1 = 3 a2 = 2, b2 = 3, c2 = 4

```
a1x+b1y=c1
a2x+b2y=c2
Nhap a1:

Nhap b1

Nhap c1

Nhap a2

Nhap b2

Nhap b2

Nhap c2

He phuong trinh co nghiem duy nhat x:-1.0 y:2.0
```

TH2: a1 = 1, b1 =1 c1 = 2, a2= 2,b2= 2,c2 =3

```
a1x+b1y=c1
a2x+b2y=c2
Nhap a1:

Nhap b1

Nhap c1

Nhap c2

Nhap b2

Nhap b2

hap c2

Nhap c2

hap c2

hap c2

hap c2

hap c2

hap c3

He phuong trinh vo nghiem
```

TH3: a1 = 1 , b1 =1 c1 = 2, a2= 2,b2= 2,c2 =4

```
a1x+b1y=c1
a2x+b2y=c2
Nhap a1:

Nhap b1
Nhap c1
Nhap c2
Nhap b2
Nhap b2
Nhap c2
Nhap c2
He phuong trinh vo so nghiem
```

Exercises

6.1 Write, compile and run the ChoosingOption program

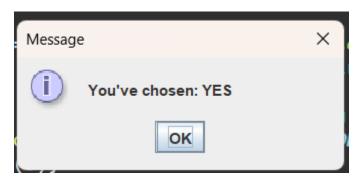
```
1 package week1;
 2 import javax.swing.JOptionPane;
 3 //Nguyen Trinh Hoang Nguyen 20225656
 4 public class ChossingOption {
       public static void main(String args[])
 60
           int option = JOptionPane.showConfirmDialog(null,
                   "Do you want to change to the first class ticket?");
10
           JOptionPane.showMessageDialog(null, "You've chosen: "
11
12
                   + (option==JOptionPane.YES OPTION?"YES":"NO"));
13
           System.exit(0);
14
       }
15 }
16
```

Figure 7 Code 6.1

Chạy:



Nếu người dùng chọn Yes:



Nếu người dùng chọn NO hoặc Cancel:

```
1 package week1;
2 import javax.swing.JOptionPane;
3 //Nguyen Trinh Hoang Nguyen 20225656
4 public class ChossingOption {
       public static void main(String args[])
60
           int option = JOptionPane.showConfirmDialog(null,
                   "Do you want to change to the first class ticket?");
           JOptionPane.showMessageDialog(null, "You've chosen: "
                   + (option==JOptionPane.YES_OPTION?"YES":"NO"));
           System.exit(0);
15 }
                                                       Message
                                                                                   X
                                                             You've chosen: NO
                                                                     OK
```

6.2 Write a program for input/output from keyboard

```
package week1;
import java.util.Scanner;
public class InputFromKeyboard {
    public static void main(String args[])
        java.util.Scanner keyboard = new Scanner(System.in);
        System.out.println("What's your name?");
        String strName = keyboard.nextLine();
        System.out.println("How old are you?");
        int iAge = keyboard.nextInt();
        System.out.println("How tall are you (m)?");
        double dHeight = keyboard.nextDouble();
        System.out.println("Mrs/Ms. " + strName +", "
                +iAge + " years old." + "Your height is "
                + dHeight + ".");
        keyboard.close();
    }
```

Figure 8 Code 6.2

Chạy:

```
What's your name?
Nguyen Trinh Hoang Nguyen
How old are you?
20
How tall are you (m)?
175
Mrs/Ms. Nguyen Trinh Hoang Nguyen, 20 years old.Your height is 175.0.
```

=> Chương trình hỏi tên, tuổi, chiều cao rồi in ra màn hình.

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

```
1 package week1;
 2 import java.util.Scanner;
 3 //Nguyen Trinh Hoang Nguyen 20225656
 4 public class bai6_3 {
       public static void main(String args[])
 5●
       {
           java.util.Scanner keyboard = new Scanner(System.in);
           System.out.println("Nhap so n:");
           int n = keyboard.nextInt();
           for(int i = 1;i<=n;i++)
10
11
           {
12
                for(int j = 1;j<= n-i;j++)
13
                    System.out.print(" ");
14
15
                for(int j = 1; j <= 2*i-1; j++)
16
17
                    System.out.print("*");
18
19
20
               System.out.print("\n");
21
22
           keyboard.close();
23
       }
24 }
```

Figure 9 Code 6.3

Chạy:

Nếu n = 4

Nếu n = 6

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

Định dạng các tháng mà người dùng có thể nhập:

```
package week1;
.oimport java.util.Arrays;∏
 //Nguyen Trinh Hoang Nguyen 20225656
 public class bai6_4 {
     public static void main(String args[])
     {
          Scanner sc = new Scanner(System.in);
          String[] Jan = {"January","Jan.","Jan","1"};
          String[] Fer = {"February", "Feb.", "Feb", "2"};
          String[] Mar = {"March","Mar.","Mar","3"};
          String[] Apr = {"April", "Apr.", "Apr", "4"};
          String[] May = {"May","5"};
          String[] Jun = {"June","Jun","6"};
String[] Jul = {"July","Jul","7"};
          String[] Aug = {"August","Aug.","Aug","8"};
          String[] Sep = {"September","Sept.","Sep","9"};
          String[] Oct = {"October","Oct.","Oct","10"};
          String[] Nov = {"November", "Nov.", "Nov",
          String[] Dec = {"December", "Dec.", "Dec", "12"};
          String strMonth;
          String strYear;
          int month = 0;
          int year;
          int days;
```

Figure 10 Code 6.4

Nhập tháng và chỉnh giá trị month bằng tháng đã nhập vào:

```
while(month == 0)
{
    System.out.println("Nhap thang: ");
    strMonth = sc.nextLine();
    if(Arrays.asList(Jan).contains(strMonth)) month =1;
    else if(Arrays.asList(Fer).contains(strMonth)) month =2;
    else if(Arrays.asList(Mar).contains(strMonth)) month =3;
else if(Arrays.asList(Apr).contains(strMonth)) month =4;
    else if(Arrays.asList(May).contains(strMonth)) month =5;
    else if(Arrays.asList(Jun).contains(strMonth)) month =6;
    else if(Arrays.asList(Jul).contains(strMonth)) month =7;
    else if(Arrays.asList(Aug).contains(strMonth)) month =8;
    else if(Arrays.asList(Sep).contains(strMonth)) month =9;
    else if(Arrays.asList(Oct).contains(strMonth)) month =10;
    else if(Arrays.asList(Nov).contains(strMonth)) month =11;
    else if(Arrays.asList(Dec).contains(strMonth)) month =12;
    {
        System.out.println("Thang khong xac dinh. Vui long nhap lai:");
```

Đọc năm và kiểm tra xem có hợp lệ ($!strYear.matches("\d+")$ để kiểm tra xem năm nhập vào có phải số hay không)

```
//Nhap nam va kiem tra nam co hop le
while(true)
{
    System.out.println("Nhap nam: ");
    strYear = sc.nextLine();

    if(!strYear.matches("\\d+"))
    {
        System.out.println("Nam khoong xac dinh. Vui long nhap lai:");
        continue;
    }
    year = Integer.parseInt(strYear);
    if(year <0)
    {
        System.out.println("Nam khoong xac dinh. Vui long nhap lai:");
        continue;
    }else break;
}</pre>
```

Thực hiện tính ngày dựa trên tháng và năm rồi in ra màn hình:

```
if(month == 2)
{
    if((year % 4 == 0 && year %100 != 0)|| year % 400 == 0)
    {
        days = 29;
    }
    else
    {
        days =28;
    }
}
else if(month == 1||month == 3||month == 5||month == 7||month == 8||month == 10||month == 12)
{
    days =31;
}
else
{
    days = 30;
}
System.out.println("Thang " + month +" nam " + year + " co " +days +" ngay.");
sc.close();
}
```

Chạy:

Test 1: Nhập tháng Jan., nhập năm 2020

```
Nhap thang:
Jan.
Nhap nam:
2020
Thang 1 nam 2020 co 31 ngay.
```

Test 2: Nhập tháng 2 ,nhập năm 2000

```
Nhap thang:
2
Nhap nam:
2000
Thang 2 nam 2000 co 29 ngay.
```

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

Sử dụng thuật toán Bubble Sort để thực hiện sắp xếp các phần tử trong mảng

```
1 package week1;
30 import java.util.Scanner;□
5 //Nguyen Trinh Hoang Nguyen 20225656
6 public class bai6_5 {
       public static void bubbleSort(int[] arr)
            boolean swapped = false;
L0
            for(int i = 0;i< arr.length -1;i++)</pre>
۱1
            {
L2
                 swapped = false;
L3
                 for(int j = 0;j< arr.length -i -1;j++)</pre>
L4
L5
                     if(arr[j]>arr[j+1])
                     {
                          int temp = arr[j];
                          arr[j]= arr[j+1];
١9
                          arr[j+1] = temp;
20
                          swapped =true;
21
                     }
23
                   (!swapped)
25
                     break;
26
            }
28
```

Figure 11 Code 6.5

Hàm main để đọc các giá trị của mảng và in ra màn hình các kết quả yêu cầu:

```
public static void main(String args[])
        Scanner sc = new Scanner(System.in);
        int sum = 0;
        float average = 0;
        System.out.println("Nhap so luong phan tu: ");
        int size = sc.nextInt();
        int[] arr = new int[size];
        System.out.println("Nhap lan luot cac phan tu cua mang: ");
        for(int i = 0;i<size;i++)</pre>
            arr[i] = sc.nextInt();
            sum += arr[i];
        sc.close();
        average = (float)sum / (float)arr.length;
        bubbleSort(arr);
        System.out.println("Mang duoc sap xep la: " + Arrays.toString(arr));
        System.out.println("Gia tri trung binh cua mang duoc sap xep la: " + average);
       System.out.println("Tong cua cac phan tu trong mang: " + sum);
    }
}
```

Chay:

Test 1:

```
Nhap so luong phan tu:

4
Nhap lan luot cac phan tu cua mang:
10
20
50
1
Mang duoc sap xep la: [1, 10, 20, 50]
Gia tri trung binh cua mang duoc sap xep la: 20.25
Tong cua cac phan tu trong mang: 81
```

Test 2:

```
Nhap so luong phan tu:

Nhap lan luot cac phan tu cua mang:

-1
-2
10
30
-100
Mang duoc sap xep la: [-100, -2, -1, 10, 30]
Gia tri trung binh cua mang duoc sap xep la: -12.6
Tong cua cac phan tu trong mang: -63
```

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

```
package week1;
  import java.util.Scanner;
4 //Nguyen Trinh Hoang Nguyen 20225656
      public static void main(String args[])
           Scanner sc = new Scanner(System.in);
          System.out.println("Nhap so hang: ");
           int rows = sc.nextInt();
           System.out.println("Nhap so cot: ");
           int columns = sc.nextInt();
           int [][] matrix1 = new int[rows][columns];
           int [][] matrix2 = new int[rows][columns];
           int [][] ansMatrix = new int[rows][columns];
           System.out.println("Nhap cac phan tu cua ma tran thu nhat: ");
           for(int i = 0 ; i<rows ; i++)
           {
               for(int j = 0; j<columns ; j++)</pre>
                   matrix1[i][j] = sc.nextInt();
               16
           System.out.println("Nhap cac phan tu cua ma tran thu hai: ");
           for(int i = 0 ; i<rows ; i++)
               for(int j = 0; j<columns ; j++)</pre>
                   matrix2[i][j] = sc.nextInt();
                   ansMatrix[i][j] = matrix1[i][j] + matrix2[i][j];
               }
           System.out.println(" Tong cua 2 ma tran tren la: ");
           for(int i = 0 ; i<rows ; i++)</pre>
               for(int j = 0; j<columns ; j++)</pre>
                   System.out.print(ansMatrix[i][j] + " ");
               System.out.println();
```

Figure 12 Code 6.6

Chương trình đọc số hàng, số cột của 2 ma trận, lần lượt đọc các phần tử của 2 ma trận và in ra màn hình ma trận kết quả

Chạy:

Test 1:

```
Nhap so hang:

Nhap so cot:

Nhap cac phan tu cua ma tran thu nhat:

Nhap cac phan tu cua ma tran thu hai:

Nhap cac phan tu cua ma tran thu hai:

Nhap cac phan tu cua ma tran thu hai:

Tong cua 2 ma tran tren la:
10 10 10
10 10 10
10 10 10
```

Test 2:

```
Nhap so hang:

Nhap so cot:

Nhap cac phan tu cua ma tran thu nhat:

Nhap cac phan tu cua ma tran thu hai:

Nhap cac phan tu cua ma tran thu hai:

Tong cua 2 ma tran tren la:

O O
O 1
```