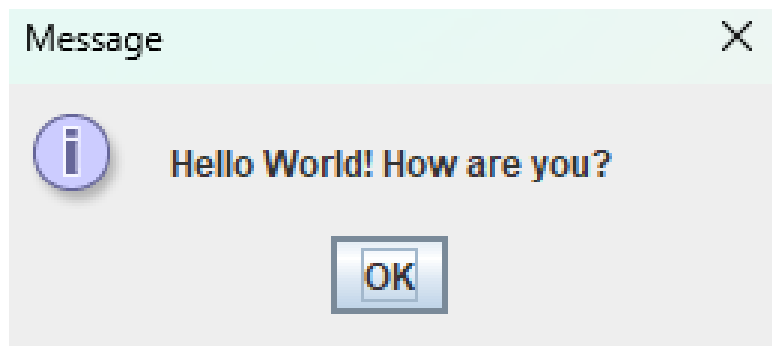


jdk17

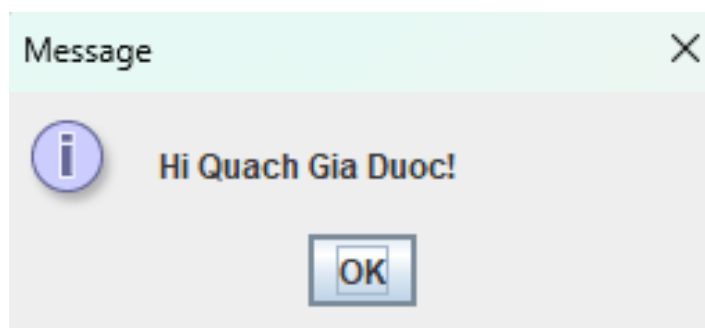
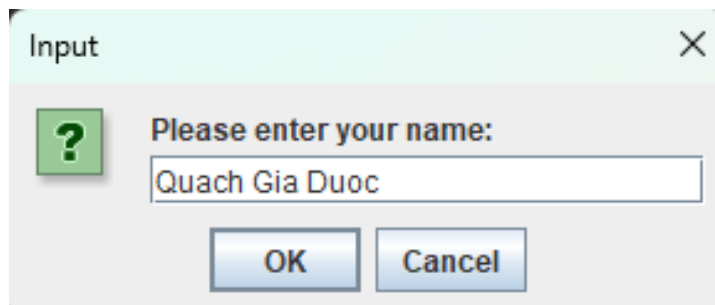
### 2.2.1 - Write, compile the first Java application

```
Xin chao  
cac ban!  
Hello world!
```

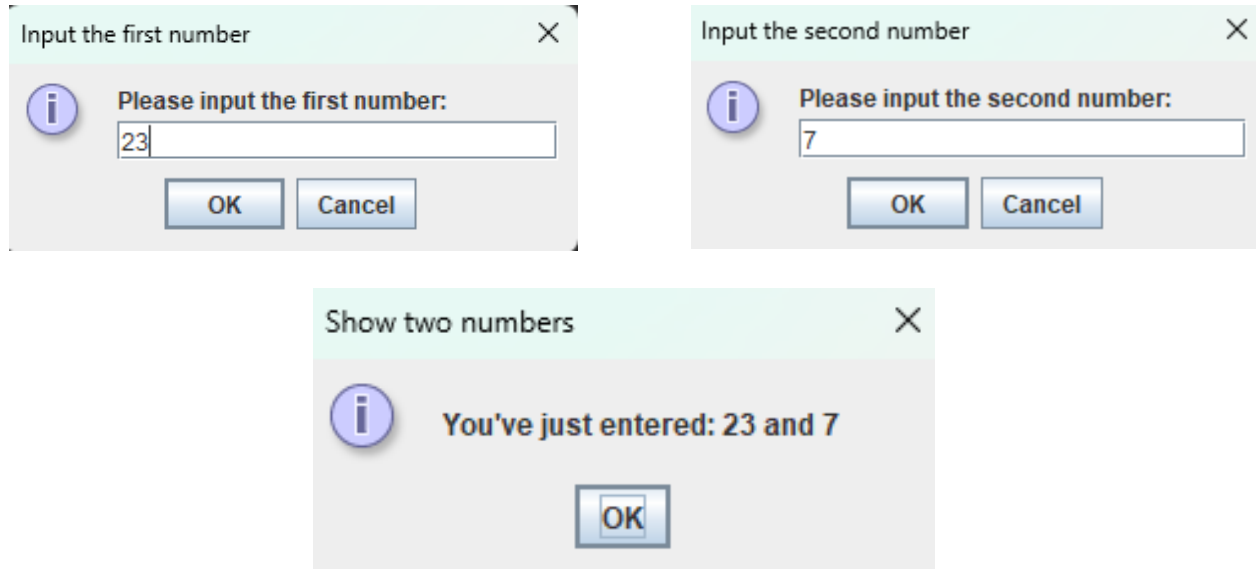
### 2.2.2 - Write, compile the first dialog Java program



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



### 2.2.4 – Write, compile, and run the following example



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

```
run:
Nhap vao a:
15
Nhap vao b:
8
Tong cua 2 so a va b la: 23.0
Hieu cua 2 so a va b la: 7.0
Tich cua 2 so a va b la: 120.0
Thuong cua 2 so a va b la: 1.875
BUILD SUCCESSFUL (total time: 3 seconds)
```

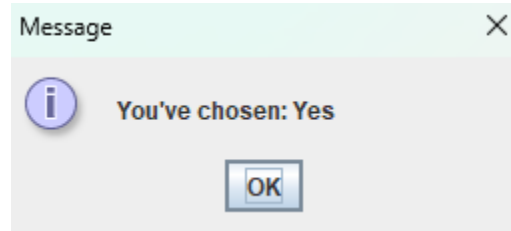
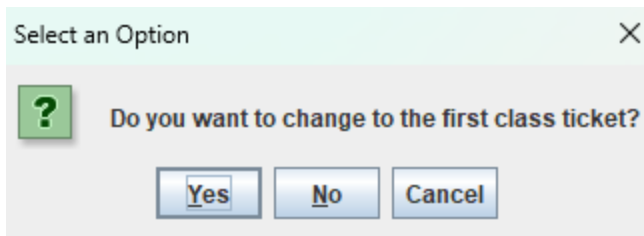
### 2.2.6 - Write a program to solve

```
run:
Chon Option
1. Giai phuong trinh bac nhat 1 an
2. Giai he phuong trinh bac nhat 2 an
3. Giai phuong trinh bac hai 1 an
4. Thoat chuong trinh
Nhap option:
1
Nhap a:
23
Nhap b:
7
Phuong trinh 23.0x + 7.0 = 0
Co nghiem la: x = -0.30434782608695654
```

```
Chon Option
1. Giai phuong trinh bac nhat 1 an
2. Giai he phuong trinh bac nhat 2 an
3. Giai phuong trinh bac hai 1 an
4. Thoat chuong trinh
Nhap option:
2
all: 3
a21: 5
b1: 1
a12: 2
a22: -1
b2: -8
Ma tran mo rong cua he phuong trinh la:
3.0 5.0 1.0
2.0 -1.0 -8.0
D = -13.0
D1 = 39.0
D2 = -26.0
He phuong trinh co nghiem duy nhat:
x1 = D1/D = -3.0
x2 = D2/D = 2.0
```

```
Chon Option
1. Giai phuong trinh bac nhat 1 an
2. Giai he phuong trinh bac nhat 2 an
3. Giai phuong trinh bac hai 1 an
4. Thoat chuong trinh
Nhap option:
3
Nhap a: 1
Nhap b: -5
Nhap c: 2
d = 17.0
Phuong trinh co 2 nghiem phan biet:
x1 = 4.561552812808831
x2 = 0.4384471871911697
Chon Option
1. Giai phuong trinh bac nhat 1 an
2. Giai he phuong trinh bac nhat 2 an
3. Giai phuong trinh bac hai 1 an
4. Thoat chuong trinh
Nhap option:
4
BUILD SUCCESSFUL (total time: 2 minutes 15 seconds)
```

## 6.1 - Write, compile and run the ChoosingOption program



### Questions:

- What happens if users choose “Cancel”?

Khi người dùng chọn "Cancel" trong hộp thoại  
JOptionPane.showConfirmDialog, chương trình sẽ hiển thị thông báo  
"You've chosen: No"

Vì điều kiện `option == JOptionPane.YES_OPTION` là false, nên đoạn mã  
rơi vào trường hợp còn lại.

- How to customize the options to users, e.g. only two options: “Yes” and  
“No”, OR “I do” and “I don’t”

```
import javax.swing.JOptionPane;
```

```
public class ChoosingOption {
```

```
    public static void main(String[] args) {
```

```
        Object[] options = {"Yes", "No"};
```

```
        int option = JOptionPane.showOptionDialog(null,  
            "Do you want to change to the first class ticket?",
```

```
            "Choose an option",
```

```
            JOptionPane.DEFAULT_OPTION,
```

```
            JOptionPane.QUESTION_MESSAGE,
```

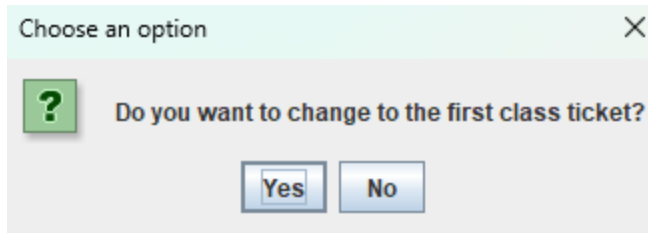
```
            null, options, options[0]);
```

```
JOptionPane.showMessageDialog(null, "You've chosen: " + (option == 0 ? "Yes" : "No"));
```

```
        System.exit(0);
```

```
    }
```

```
}
```



## 6.2 - Write a program for input/output from keyboard

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

[illegible]

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.

```
run:
Nhap thang:
Feb
Nhap nam:
2004
Thang 2 nam 2004 co 29 ngay
BUILD SUCCESSFUL (total time: 7 seconds)
```

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

```
run:
Nhap so luong phan tu cua mang: 5
Nhap mang
12
16
23
7
-21
Mang vua nhap la: 12 16 23 7 -21
Mang da sap xep: -21 7 12 16 23
Tong cac gia tri cua mang la: 37
Gia tri trung binh cua mang la: 7.4
BUILD SUCCESSFUL (total time: 15 seconds)
```

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

```
run:
Nhap so hang: 2
Nhap so cot: 3
Nhap vao ma tran 1:
1
2
3
4
5
6
Nhap vao ma tran 2:
6
5
4
3
2
1
Ma tran 1:
1 2 3
4 5 6
Ma tran 2:
6 5 4
3 2 1
Tong cua 2 ma tran:
7 7 7
7 7 7
BUILD SUCCESSFUL (total time: 21 seconds)
```