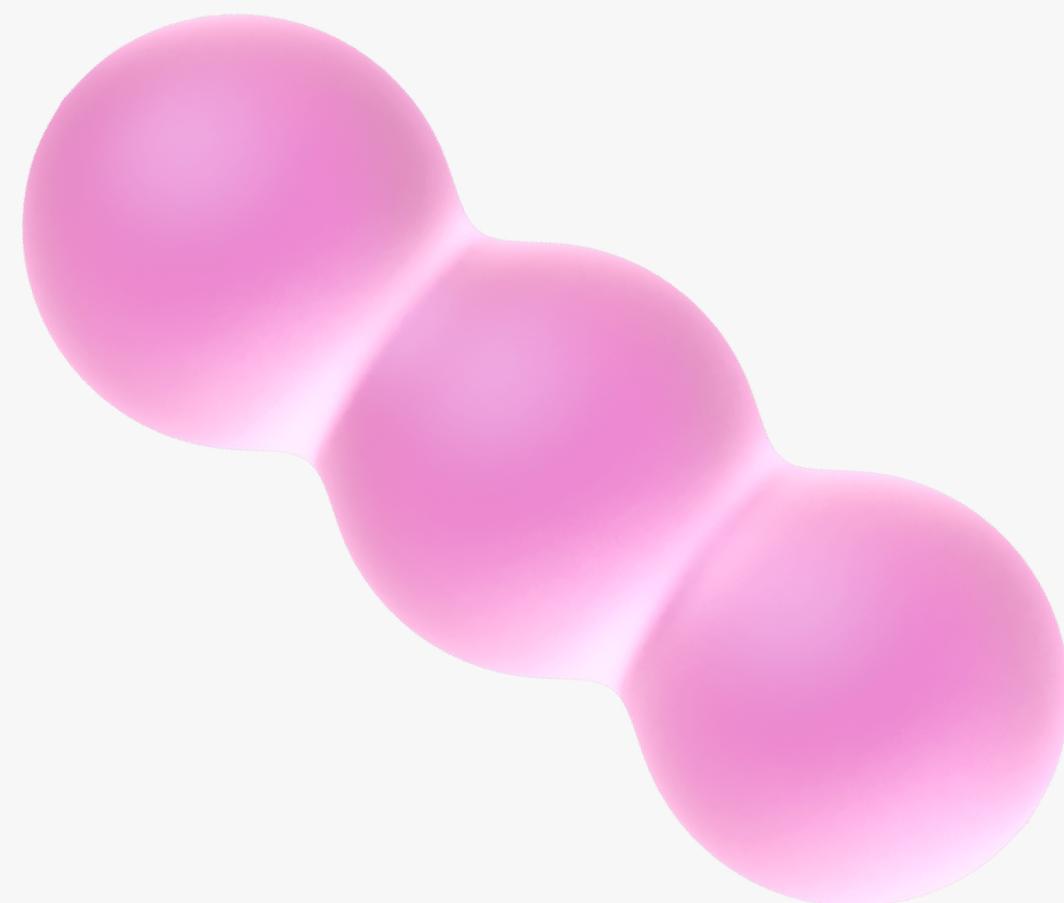


# PROJECT 1

The project creates a calculator for calculating sums

# Team 6



## Group member

- Ho Cong Hieu (Leader)
- Le Anh Vu
- Duong Gia Huy
- Nguyen Hoang Trieu
- Le Nguyen Viet Thai

# requirement:

<b>Plus key</b>	<b>Minus key</b>
<ul style="list-style-type: none"><li>• Enter the two numbers you need to show and then add the formula to get the result.</li></ul>	<ul style="list-style-type: none"><li>• Add the two numbers you need to show and then add Subtraction to get the result</li></ul>
<b>Minus key</b>	<b>Split key</b>
<ul style="list-style-type: none"><li>• Add the two numbers you need to show and then add Multiplication to get the result</li></ul>	<ul style="list-style-type: none"><li>• Add the two numbers you need to show and then add Division to get the result</li></ul>

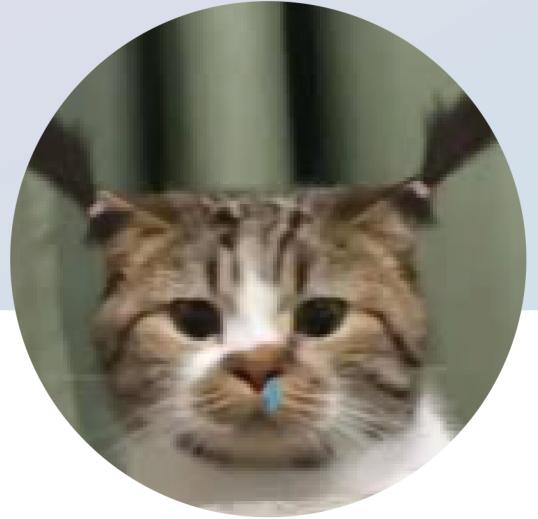
# Analyze the functions of spells:

$+$   $-$   
 $\times$   $\div$



- Phép cộng (Addition)
- Phép trừ (Subtraction)
- Phép nhân (Multiplication)
- Phép chia (Division)

# Members are assigned to work on projects:



Nguyễn Hoàng Triều:  
Addition

Lê Anh Vũ:  
Subtraction

Hồ Công Hiếu:  
Form GUI

L.N.Việt Thái:  
Division

Dương Gia huy:  
Multiplication

+

-

÷

×

# Phép cộng (Addition)

## Requirements:

- The system must perform addition between two numbers.
- Support both integers and decimals.
- Handle special cases such as large numbers, negative numbers, and zero.

## Function Specification:

- Input two numbers.
- Calculate the sum of the two numbers.
- Return the result as the sum of the two input numbers.

## Description:

- Users input two numbers  $a$  and  $b$ .
- The system computes  $c = a + b$ .
- The result  $c$  is returned and displayed to the user.

# Phép trừ (Subtraction)

## Requirements:

- The system must perform subtraction between two numbers.
- Support both integers and decimals.
- Handle special cases such as negative numbers and zero.

## Function Specification:

- Input two numbers.
- Calculate the difference between the two numbers.
- Return the result as the difference between the two input numbers.

## Description:

- Users input two numbers  $a$  and  $b$ .
- The system computes  $c = a - b$ .
- The result  $c$  is returned and displayed to the user.

# Phép nhân (Multiplication)

## Requirements:

- The system must perform multiplication between two numbers.
- Support both integers and decimals.
- Handle special cases such as large numbers, negative numbers, and zero.

## Function Specification:

- Input two numbers.
- Calculate the product of the two numbers.
- Return the result as the product of the two input numbers.

## Description:

- Users input two numbers  $a$  and  $b$ .
- The system computes  $c = a * b$ .
- The result  $c$  is returned and displayed to the user.

# Phép chia (Division)

## Requirements:

- The system must perform division between two numbers.
- Support both integers and decimals.
- Handle special cases such as division by zero and very small numbers.

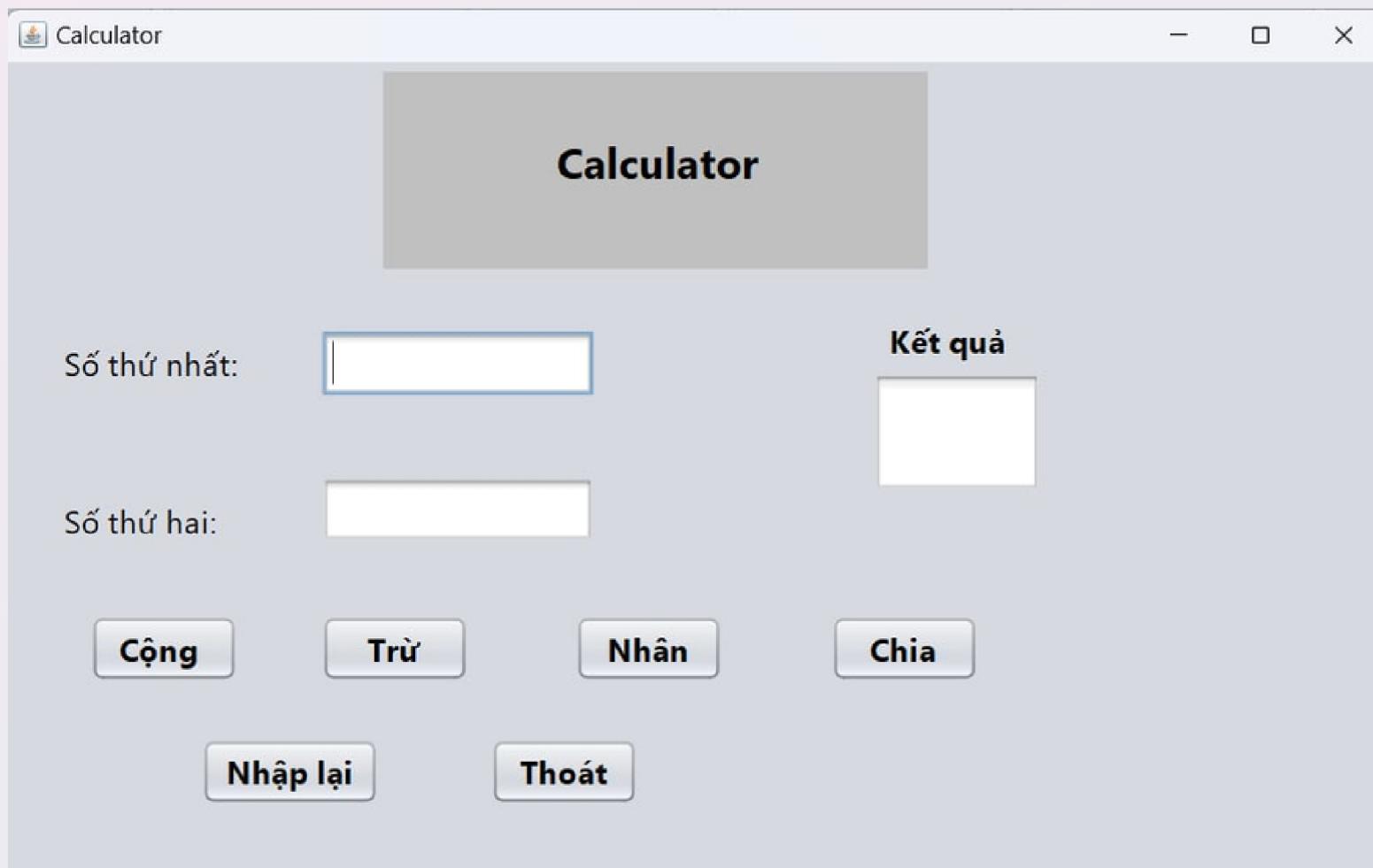
## Function Specification:

- Input two numbers.
- Calculate the quotient of the two numbers.
- Return the result as the quotient of the two input numbers.
- Handle the case of division by zero, the system should either raise an error or handle appropriately.

## Description:

- Users input two numbers  $a$  and  $b$ .
- The system checks if  $b == 0$ , then it raises an error "Cannot divide by zero".
- If  $b != 0$ , the system computes  $c = a / b$ .
- The result  $c$  is returned and displayed to the user.

## Mẫu thiết kế giao diện (design)



computer data processing

- Data such as subtraction, multiplication and division are turned into buttons that allow users to calculate the numbers they desire
- Enter input data to let the system handle cases where entering wrong numbers or letters results in failure

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    try {
        double num1 = Double.parseDouble(s: txtso1.getText());
        double num2 = Double.parseDouble(s: txtso2.getText());
        double tru = 0;
        tru = num1 - num2;
        txtkq.setText(tru + "");
    } catch (Exception e) {
        txtkq.setText(t: "Nhập dữ liệu sai");
    }
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try {
        double num1 = Double.parseDouble(s: txtso1.getText());
        double num2 = Double.parseDouble(s: txtso2.getText());
        double cong = 0;
        cong = num1 + num2;
        txtkq.setText(cong + "");
    } catch (Exception e) {
        txtkq.setText(t: "Nhập dữ liệu sai");
    }
}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    try {
        double num1 = Double.parseDouble(s: txtsol.getText());
        double num2 = Double.parseDouble(s: txtso2.getText());
        double nhan = 0;
        nhan = num1 * num2;
        txtkq.setText(nhan + "");
    } catch (Exception e) {
        txtkq.setText(t: "Nhập dữ liệu sai");
    }
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    try {
        double num1 = Double.parseDouble(s: txtsol.getText());
        double num2 = Double.parseDouble(s: txtso2.getText());
        double chia = 0;
        chia = num1 / num2;
        txtkq.setText(chia + "");
    } catch (Exception e) {
        txtkq.setText(t: "Nhập dữ liệu sai");
    }
}
```

# PROJECT 2

Customer Information Management Application

**Write code and  
design functions:**

Nguyen Hoang Trieu	Le Anh Vu	Ho Cong Hieu	Duong Gia Huy	Le Nguyen Viet Thai
Function Add	Delete, Return function	Form GUI	Edit, cancel and save function	Search function

# The sections will be included in this assignment:

System  
Requirements

System  
architecture

Design

# 1. System Requirements:

## a. Data Storage:

- Details: Store customer information such as name, address, email, phone number, and purchase history.
- Reason: To organize and retrieve customer data efficiently.

## b. Data Update:

- Details: Allow easy addition, updating, and deletion of customer data.
- Reason: To keep customer data accurate and current.

## d. Data Analysis:

- Details: Offer tools to generate reports on customer behavior and trends.
- Reason: To understand customers better and improve business strategies

## c. Search and Retrieval:

- Details: Provide fast search capabilities using criteria like name, email, or phone number.
- Reason: To quickly find and access customer information.

## e. Security:

- Details: Implement data encryption, user authentication, and regular backups.
- Reason: To protect customer data from unauthorized access and ensure data safety.

## 2. System architecture:

### Frontend (User Interface):

- Built using HTML, CSS, JavaScript, and frameworks like React, Angular, or Vue.js.
- Provides an intuitive and user-friendly interface.

### Backend:

- Developed with Node.js, Python (Django, Flask), or Java (Spring Boot).
- Handles business logic and database interactions.
- Offers APIs for frontend and other applications.

### Database:

- Stores customer data.
- Uses MySQL, PostgreSQL, or MongoDB.
- Structured for easy retrieval and management.

### Security:

- Ensures data protection with encryption, authentication, and access control.
- Includes regular data backups.

### Integration:

- Connects with other systems like ERP, email marketing, and websites.
- Facilitates information sharing and streamlines workflows.

### 3.Design:

App Quản lý thông tin khách hàng

## App Quản lý thông tin khách hàng

Mã khách hàng:

Họ tên:

Địa chỉ:

Số điện thoại:

**Thêm** **Sửa** **Xóa** **Thoát** **Quay lại**

Tìm kiếm theo tên:  **Tìm kiếm**

Tìm kiếm theo ID:  **Tìm kiếm**

STT	ID	Họ tên	Địa chỉ	Số điện thoại
1	01	Ironman	Mỹ Tho	0123456789
2	02	Hulk	Mỹ Tho	0123567909
3	03	Trump	Mỹ Tho	0123670889
4	04	Obama	Mỹ Tho	0123770777
5	05	Thor	Mỹ Tho	0123853534
6	06	Lê Văn A	Đà Nẵng	0988901239
7	07	Lê Văn B	Đà Nẵng	0980655123
8	08	Lê Văn C	Đà Nẵng	0755558123
9	09	Nguyễn Thị A	Đà Nẵng	0769746123
10	10	Nguyễn Thị B	Đà Nẵng	0276866123

# THANK YOU

Email

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@trangwebhay



CẢM ƠN MỌI NGƯỜI LẮNG NGHE

