



# Logical Operators

## Problem 1: Voting Eligibility

- **Voting Eligibility:** Write a program that checks whether a person can vote. To be eligible, a person must be at least 18 years old and a citizen of the country.

## Problem 2: Discount Eligibility

- **Discount Eligibility:** Create a program for a store that offers a discount on a purchase. To receive the discount, customers must have a valid membership card and spend more than 2000.

## Problem 3: Online Shopping Discount

- **Online Shopping Discount:** Build an online shopping system that applies a discount to orders. Customers are eligible for the discount if they purchase at least two items and the total order value exceeds 5000.

## Problem 4: Check Vowel and Consonant

- **Check Vowel and Consonant:** Determine if a given character is a vowel or a consonant. If the character is a lowercase or uppercase vowel (a, e, i, o, u, A, E, I, O, U), consider it a vowel; otherwise, consider it a consonant.

## Problem 5: Temperature Range

- **Temperature Range:** Determine if a given temperature is within a comfortable range for outdoor activities. If the temperature is between 65°F and 85°F inclusive, it's considered comfortable. If it's outside this range, it's either too hot or too cold for outdoor activities.

## Problem 6: Dinner Options

- **Dinner Options:** Decide where to have dinner with your family. If your favorite restaurant has a discount or you're craving pizza, choose one of those options; otherwise, cook dinner at home.

## Problem 7: Login Authentication

- **Login Authentication:** Implement a login system where users should be authenticated if they enter the correct username and password. If the user enters the wrong password, display an error message.

## Problem 8: Weather Forecast

- **Weather Forecast:** Build a weather app that informs users about the weather conditions. If the weather forecast predicts no rain, display a message indicating that it's a good day for outdoor activities.

## Problem 9: Inventory Management

- **Inventory Management:** Create a program for inventory management. If an item is out of stock, display a notification. Use the logical NOT operator to check if the item is in stock.