## Lab2 extra question (1)

EQ1: Rotate a 2D array 90 degrees clockwise and counterclockwise.

- 1. Write a Java program to:
  - Input a 2D array (square matrix, e.g., n x n).
  - Display the original matrix.
  - Rotate the matrix 90 degrees clockwise and display the result.
  - Rotate the matrix 90 degrees counterclockwise and display the result.
- 2. Implement methods:
  - rotateClockwise(int[][] matrix)
  - rotateCounterClockwise(int[][] matrix)

# **Example input:**

- 123
- 456
- 789

## **Output:**

## Original

- 123
- 456
- 789

# 90 Degrees Clockwise:

- 741
- 852
- 963

# 90 Degrees Counterclockwise:

- 369
- 258
- 147