

Homework 1

Assignment Date: 2024.10.01

Submission Deadline: 2024-10-08 (Must submit online to portal before start C++)

Marks: 100

Question 1: Implement a Simple ATM System

- **Requirements:**

- The user starts with an initial balance of \$1000.
- Display a menu of options
- Check Balance
- Deposit Money
- Withdraw Money
- Exit

Question 2: Sorting an Array of Integers:

- **Requirements:**

- Define an array of 10 integers.
- Use a for-loop to take input from the user.
- Implement the **Bubble Sort** algorithm to sort the array.
- Display the sorted array after sorting.

Question 3: Matrix Operations

- **Requirements:**

- Input two matrices (2D arrays) of size N x M.
- Perform the following matrix operations:
 - Addition of the two matrices.
 - Subtraction of the two matrices.
 - Multiplication of the two matrices.
 - Transpose of a matrix.
- Display the result of each operation.