

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.