**LAB # 06**

**Searching in a Linear Array**

**OBJECTIVE:** To find an element in linear array using Linear Search and Binary Search.

TASK 1

Declare an array of size 10 to store account balances. Initialize with values 0 to 1000000. Check all array if any value is less than 10000. Show message:

Account No. Low Balance

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| CODE:    OUTPUT: |

TASK 2

Write a program to search in array using Array built-in class.

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| CODE:    OUTPUT: |

TASK 3

Given an unsorted array arr of integers, find the smallest positive integer that is **missing** from the array. You need to implement this using **binary search**. The array can contain both negative numbers and positive numbers, and you can assume that the array does not have duplicates.

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| CODE:    OUTPUT: |

TASK 4

You are given a sorted array arr[] and a target element target. Your task is to find the **first occurrence** of the target in the array using binary search. If the target is not found, return -1. You are given a sorted array arr[] and a target element target. Your task is to find the **first occurrence** of the target in the array using binary search. If the target is not found, return -1.

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| CODE:      OUTPUT: |