ASSIGNMENT NO.7

- 1. Declare a single-dimensional array of 5 integers inside the main method. Traverse the array to print the default values. Then accept records from the user and print the updated values of the array.
- 2. Declare a single-dimensional array of 5 integers inside the main method. Define a method named acceptRecord to get input from the terminal into the array and another method named printRecord to print the state of the array to the terminal.
- 3. Write a program to find the maximum and minimum values in a single-dimensional array of integers.
- 4. Write a program to remove duplicate elements from a single-dimensional array of integers.
- 5. Write a program to find the intersection of two single-dimensional arrays.
- 6. Write a program to find the missing number in an array of integers ranging from 1 to N.
- 7. Declare a single-dimensional array as a field inside a class and instantiate it inside the class constructor. Define methods named acceptRecord and printRecord within the class and test their functionality.
- 8. Modify the previous assignment to use getter and setter methods instead of acceptRecord and printRecord.
- 9. You need to implement a system to manage airplane seat assignments. The airplane has seats arranged in rows and columns. Implement functionalities to:
 - Initialize the seating arrangement with a given number of rows and columns.
 - Book a seat to mark it as occupied.
 - Cancel a booking to mark a seat as available.
 - Check seat availability to determine if a specific seat is available.
 - Display the current seating chart.