Assignment 1

1) Develop a Menu driven program to demonstrate the following operations of Arrays:

----MENU----

- 1. CREATE
- 2. DISPLAY
- 3. INSERT
- 4. DELETE
- 5. SEARCH
- 6. EXIT
- 2) Implement the Binary search algorithm regarded as a fast search algorithm with runtime complexity of O(log n) in comparison to the Linear Search.
- 3) Design the logic to remove the duplicate elements from an Array and after the deletion the array should contain the unique elements.
- 4) Implement the logic to:
 - 1. Reverse the elements of an array.
 - 2. Find Mean, Mode, Median in an array.
 - 3. Find the Matrix Multiplication.
 - 4. Find the Transpose of a Matrix.
- 5) Design the logic to find a Missing Number in a Sorted Array.