**Assignment : Array (Searching and Sorting)**

1. Write a C program to implement Insertion sort.
2. Write a C program to cyclically rotate an array by one.
3. Write a program to add an element at a specified location.
4. Write a program that initializes an array with 10 integers entered by the user, then asks the user which position they want to remove.
5. Create a C program that takes 10 integers from the user, stores them in an array, and checks for duplicate values.
6. Create a C program that prompts the user to enter 10 integers and then prints the frequency of each distinct element present in the array.
7. Write a C program to calculate the median of an array containing an odd number of elements.
8. Write a program that inputs 10 Float type values from the user and displays the sum and average of these values.
9. Write a program that inputs 5 integers from the user and swap the value of 2ndindex with 5th index.
10. Write a C program to implement the binary search algorithm on a sorted array of integers.