**Assignment 6b: 1-Dimensional and 2-Dimensional Array**

1. Write a C program to reverse the array.

int a[5];

input array -🡪

|  |  |  |
| --- | --- | --- |
| 5 | a[0] | |
| 8 |  |
| 7 |  |
| 4 |  |
| 3 |  |

Output array 🡪

|  |  |  |
| --- | --- | --- |
| 3 | a[0] | |
| 4 |  |
| 7 |  |
| 8 |  |
| 5 |  |

1. Write a C program to sort the given array. (Ascending)

Input array -🡪34, 23,11,1,12,13,5,6,7,8

Output array 🡪1,5,6,7,8,11,12,13,23,34

1. Write a C program to search a given number using linear search.

Input array -🡪34, 23,11,1,12,13,5,6,7,8

Output 🡪 1 is present at position 4

Output 🡪 100 is not present in the list

1. Write a C program to convert a decimal number into binary.
2. Write a C program to find the occurrence of an integer in the array.
3. Write a C program to add two matrices.
4. Write a C program to subtract two matrices.
5. Write a C program to perform scalar matrix multiplication.
6. Write a C program to multiply two matrices.
7. Write a C program to find sum of main diagonal elements of a matrix.