भारतीय सूचना प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Information Technology Guwahati

COMPUTER PROGRAMMING LAB (CS110)
ASSIGNMENTS–08

1. Write a program in C to read n `int` values in an array and display it in reverse order.

2. Write a function in C to find the sum of all array elements.

3. Write a program in C to find the minimum element in an array.

4. Write a function in C to copy the elements of one array into another array.

5. Write a program in C to count the occurrences of odd numbers in an array.

6. Write a function in C to print all unique elements in an array.

7. Write a function in C to count the total number of duplicate elements in an array.

8. Write a function in C to merge two arrays of the same size sorted in descending order. The merged array should be sorted in descending order.

9. Write a program in C to count the frequency of each element of an array.

10. Write a program in C to separate odd and even integers stored in an array into two separate arrays.

11. Write a function in C to add an element at the desired position of an array, considering it a list.

12. Write a function in C to delete an element at the desired position from an array, considering it a list.

13. Write a function in C to add a new value in a sorted array. After the operation, the modified array needs to be sorted.

14. Write a function in C to find the second largest element in an array.

15. Write a function in C for adding two matrices of the same size.

16. Write a function in C for subtracting two matrices of the same size.

17. Write a function in C for the multiplication of two matrices.

18. Write a function in C to find the transpose of a given matrix.

19. Write a program in C to find the sum of rows and columns of a matrix.

20. Write a function in C to check whether a given matrix (of integers) is an identity matrix.

21. Write a program in C to find a pair of elements in an array of `int`, such that the sum of these elements is equal to a given number.

22. Write a program in C to find all subarrays with a given sum from a given array.