भारतीय सूचना प्रौद्योगिकी संस्थान गुवाहाटी

Indian Institute of Information Technology Guwahati

COMPUTER PROGRAMMING LAB (CS110)

ASSIGNMENTS–07

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 function in C to count a total number of duplicate elements in an array.
6. Write a program in C to count the occurrences of odd numbers in an array.
7. Write a function in C to print all unique elements in an array.
8. Write a function in C to merge two arrays of the same size 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 delete an element at the desired position from an array, considering it a list.
12. Write a function in C to add an element at the desired position of 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 the addition of two matrices of the same size.

16. Write a function in C for the subtraction of 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 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.