भारतीय सूचना प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Information Technology Guwahati
COMPUTER PROGRAMMING LAB (CS110)
ASSIGNMENTS–06

1. Write a recursive function in C to reverse a positive integer.

2. Write a recursive function in C to find the greatest common divisor (GCD) of two numbers.

3. Write a recursive function in C to solve Tower of Hanoi problem.

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

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

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

7. Write a program in C to copy the elements of one array into another array.

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

9. Write a program in C to print the addresses of all elements in an array. Try for int, char and double arrays. Print the elements using pointer.

10. Write a program in C to merge two arrays of the same size sorted in descending order. Merged array should remain sorted.

11. 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.

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 find the second largest element in an array.