

## Lab Report(Exercises)

### Structured Programming Lab

**Deadline:**  
**28/6/2022**  
**and Viva**

**Submission:Softcopy**

1. Write a program in C to store elements in an [array](#) and print it
2. Write a program in C to read n number of values in an [array](#) and display it in reverse order.
3. Write a program in C to find the sum of all elements of the [array](#)
4. Write a program in C to copy the elements of one [array](#) into another [array](#)
5. Write a program in C to count a total number of duplicate elements in an [array](#).
6. Write a program in C to print all unique elements in an [array](#)
7. Write a program in C to merge two arrays of same size sorted in decending order
- ✓ 8. Write a program in C to find the maximum and minimum element in an [array](#).
9. Write a program in C to separate odd and even integers in separate arrays
- ✓ 10. Write a program in C to sort elements of [array](#) in ascending order.
- ✓ 11. Write a program in C to sort elements of the [array](#) in descending order.
12. Write a program in C to insert New value in the [array](#) (unsorted list ).
13. Write a program in C to delete an element at desired position from an [array](#).
14. Write a program in C to find the second largest element in an [array](#).
15. Write a program in C to find the second smallest element in an [array](#)
16. Write a program in C for a 2D [array](#) of size 3x3 and print the matrix.
17. Write a program in C for addition of two Matrices of same size.
- ✓ 18. Write a program in C to display the n terms of odd natural number and their sum.
19. Write a program in C to display the n terms of harmonic series and their sum.
- ✓ 20. Write a C program to determine whether a given number is prime or not.

21. Write a program in C to find the number and sum of all integer between 100 and 200 which are divisible by 9.

22. Write a program in C to find the sum of the series  $1 + 11 + 111 + 1111 + \dots$  n terms

23. Write the code to find the factorial of that number.

✓ 24. Enter a six digit number and print the number in reverse order and find the sum of those number.

✓ 25. Write a menu driven program which has the following options.

i) Factorial

ii) Prime or not

iii) odd

iv) Even

v) Exit