

## **Data Structures and Algorithms**

**MC 124**

**Lab 2**

**06.04.2022**

1. Write a program that arranges the array values in reverse order and check if it is a palindrome.
2. Write a program that displays the following output for n rows

123454321

1234 4321

123 321

12 21

1 1

3. Write a function that accepts a string as an input and returns an integer value corresponding to that string.
4. Write a C program to check whether a number is prime, Armstrong, or perfect number using functions.
5. Write a program to generate the Fibonacci series.(using for loop only)

0,1,1,2,3,5,8,.....

6. Write a function to interchange two values a and b (Call By Reference), which passes two arguments in the form of addresses of variables a and b with declarations like

void swap(int \*, int \*).

7. Write a function to find the mean, median, and mode of the given array.