Department of Computer science and Technology, Indian Institute of Engineering, Science and Technology, Shibpur, Introduction To Computing Lab

Assignment - 4

- 1. Write a C program that can store n elements in an one dimensional array and find the minimum and maximum elements from the set of data items.
- 2. Write a C program that can compare two input strings are similar or not without using strcmp().
- 3. Write a C program that takes a string as input and then prints the number of occurrence(s) of each vowel of the English alphabets in the string.
- 4. Write a c program to check whether a input string is palindrome or not.
- 5. Write a C program that can capitalize all the letters of a string.
- 6. write a C program to count number of words in a string.
- 7. Write a C program that can take two strings as input, concatenate these and store it in another character array and display it.
- 8. Write a C program that can add two matrices, A and B and store the result in another Matrix, C. Display the result.
- 9. Write a C program that first reads, row by row, a 2 Dimensional array of size $n \times n$, where n is an input parameter. The program should then determine whether the array just read falls into any of the following special cases:
 - (a) Symmetric, $A_{ij} = A_{ji}$ for all i, j.
 - (b) Lower Triangualr, $A_{ij} = 0$ when i < j.
 - (c) Diagonal, $A_{ij} = 0$ when $i \neq j$.

Also compute the sum of two diagonals