

CSE331L: Microprocessor Interfacing and Embedded Systems

Assignment #2

Deadline: May 16, 2021

1. Write a program to convert a string to uppercase and lowercase. Use Macro. [Hint: Use ASCII table]. Example -

Input String: Final Assignment

Upper Case: FINAL ASSIGNMENT

Lower Case: final assignment

2. Write a program that will create an identity matrix. Take the dimension as input. Use **Procedure** to create the matrix.

Input: 3

Output:

1 0 0

0 1 0

0 0 1

3. Write a program to count the total number of alphabets and digits in a string. Use interrupt to take user input.
4. Write a program to find the frequency of each vowel in a string. Take user input.

Input String: Final Assignment

Array:

Character	a	e	i	o	u
Frequency	2	1	2	0	0