**Computer Organization and Assembly Language**

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| **Lab 10** | |
| **Topic** | 1. Video memory |

**PART 2**

## Task 1:

Write an assembly language program to display any string of known size with the **blinking** font color white and background of color magenta.

## Task 2:

Write an assembly language program to display your first name and last name on the screen as follows. Use loops to calculate the next screen location to display the next character.

First name on first column and second name on third column.

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## Task 3:

Write an assembly language program to read the string and then display the Lower Case letters only on screen without showing space characters.Use black font color with white background color.

Let string:

*‘tHe* Quick BrOwn fox JumpS over The LaZy DOg*.’,0*

## Task 4:

Write an assembly language program to:

Let:

* string1 db ‘Computer Organization and’,0
* string2 db ‘Assembly language’,0
* string3 db 0

1. write one string at row 1 and other string at row3.
2. Concatenate the strings and display at row 5.

## Task 5:

Write an assembly language program to calculate the sum of an Array. Display the original Array values and their sum on screen. Let the array be

Array1 db 1,2,3,4,5,6,7,8,90,8,7,6,5,4,3,2,1

Observe the color scheme.

*Pattern of display should be*

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| Sample String:  1+2+3+4+5+6+7+8+90+8+7+6+5+4+3+2+1 = 162 |