## c-sharp HW #5

## Write a C# program that does the following operations:

## 1. int WordsCount(string[])

This function receives a string and returns the number of words in it. The number of words in a string can be derived from the number of spaces in that string.

2. void ConvertToUpper(char[])

This function takes a string and converts it to upper case **Hint:** use these functions from the **string.ToUpper()** 

- 3. void Read2DArray(int[,], int r, int c)
  This function reads the elements of the 2D array from the user.
- 4. void Print2DArray(int[,], int r, int c)
  This function prints the elements of the 2D array to the screen.
- 5. void Transpose(int[,] a , int r , int c , int[,]
  t)

This function computes the transpose (t) of the array (a). An array transpose is done by replacing the array's rows with columns and vice versa.

6. void PrintTrasposedArray(int[,], int r, int c) This function prints the elements of the 2D array to the screen.

## Hint: r: row, c: Column.

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$\Box$ De	efine $rows = 5$
□ De	efine $cols = 3$
□ De	efine local array of char (string) and give it an initial value.
□ De	efine local 2D int 5x3 array.
□ Te	st your functions in the main program. A menu-driven program

with the following menu could be implemented for this purpose.

- 1. Words count
- 2. Convert Sentence to Upper
- 3. Read 3x5 array
- 4. Print 5x3 array
- **5.** Array Transpose
- **6. Print Transposed Array**