CS005 Lab 9:

Hint, read todays notes again

**Part 1:**

Write a function takes in a sentence of exactly six words, and displays its acronym (all upper case) line by line.

The function can return a dummy variable, function dummy = Acrostic(A)

|  |
| --- |
| >> Acrostic(‘Every august my other niece nebulizes’)  E  A  M  O  N  N |
| Acrostic(‘And You're Telling Me This Because?’)  A  Y  T  M  T  B |

**Part 2:**

Write the same function as before above, but this time it displays the text on a single line, and *returns* the acronym string.

The function must return a string, function AcronymString = Acrostic(A)

|  |
| --- |
| >> acronym = Acrostic(‘Every august my other niece nebulizes’);  EAMONN |
| >> acronym = Acrostic(‘And You're Telling Me This Because?’)  AYTMTB |

**Extra Credit!**

You can gain 20% extra credit on these two questions if you make your code work for any number of words, not just six.

**Part 3:**

Write a function takes in a sentence of exactly six words, and displays each word line by line.

The function can return a dummy variable, function dummy = LineByLine(A)

|  |
| --- |
| >> LineByLine(‘Every august my other niece nebulizes’)  Every  august  my  other  niece  nebulizes |

**Extra Credit!**

You can gain 20% extra credit if you can do the line by line *backwards*, like this....

|  |
| --- |
| >> LineByLine(‘Every august my other niece nebulizes’)  nebulizes  niece  other  my  august  Every |

**Part 4:**

Write a function takes in a sentence, and returns and displays the number of spaces. The output should be exactly as I have indicated below

|  |
| --- |
| >> SpaceCount = NumSpaces(‘Every august my other niece nebulizes’);  The sentence:  Every august my other niece nebulizes  Has 5 spaces |
| >> SpaceCount = NumSpaces(‘Every august my other niece nebulizes’);  The sentence:  Every august my other niece nebulizes  Has 12 spaces |

**Part 5:**

Write a function that takes in a sentence and returns true if it has at least one uppercase letter.

**Hint**: How do we know if a letter is upper case. We *don’t* want to do this...

if A(i) == ‘A’

HasUpperCase = 1;

elseif A(i) == ‘B’

HasUpperCase = 1;

elseif A(i) == ‘C’

HasUpperCase = 1;

(etc etc)

That would work, but take a lot of code.

Think about this, what does this return..

MyMI = ‘j’;

upper(MyMI) == MyMI

Now what this does return?

MyMI = ‘J’;

upper(MyMI) == MyMI

Get it? ;-)