Lab 6: String Manipulation

Requirements:

- 1. This assignment as well as other assignments in this class must be finished on Windows operating system.
- 2. Your procedures must use instruction scasb for comparing string characters.
- 3. Zip your program submit on Canvas
- 4. Due 11:59pm Dec. 2, 2013

Assignments:

Part I:

Please implement the following procedure:

```
; Trims a given trailing character from a string;
; The second argument is the character to trim
    string_trim proto, pString:PTR BYTE, char: BYTE

Please use at least the following strings for testing:
    .data
    string1 byte "abcd efgh ijk&&&&",0
    string2 byte "abcd efgh &&&ijk",0
    string3 byte "&&&&&",0

trail = '&'
```

Part II:

Please write a procedure, *Str_nextword*, which is similar to a tokenizer. Here are the requirements for procedure *Str_nextword*

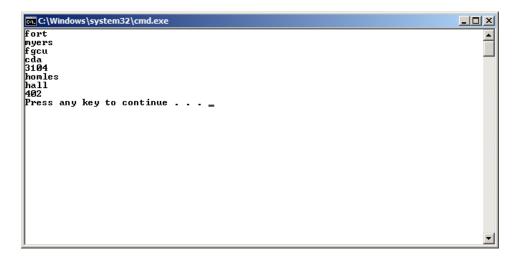
- 1. It has two parameters. One is the offset where the procedure starts searching for the next word. The other is the delimiter, which is always ''.
- 2. If the procedure finds a next word, it sets ZF. Otherwise, it clears ZF.
- 3. If the procedure finds a next word, it sets the following delimiter to null/0. (What if you do not find any following delimiter?)
- 4. If the procedure finds the next word, where this word begins is saved in EDX.
- 5. In this procedure, you can use an existing procedure: Str_length. It is to assign EAX the length of a string, excluding its null character. The parameter of this procedure is the offset/address of the string.

You are required to use the following piece of program:

```
Str_nextword PROTO,
    string:PTR BYTE,
    delimiter:BYTE
.data
msg byte " fort myers fgcu cda 3104 homles hall 402",0

.code
main PROC
    ; tokenize msg
    exit ; exit to operating system
```

Your output should look like



Grading Policies:

Correctly implement testing drivers (main procedure)	20%
Correctly implement method <i>Str_nextword</i>	40%
Correctly implement method string_trim	30%
Correct output	10%