CSC 4320 Programming Assignments

Interrupt Programming |

General Policies:
There is to be **no** sharing of **any** code. You can receive help on your programs if you request help **two days** before the program is due (or earlier), **so don't procrastinate**.

Program #1 **20%**
Due: 04/03/2017
Assignment:

DosBox.zip

This program performs the simple computation of converting Celsius to Fahrenheit:

F = (9/5)C + 32

You will use **Dos interrupts** to obtain buffered keyboard input and to print the input to the screen. You will also write macros to convert from ascii to byte and from byte to ascii. You only need to support integer inputs in the range 0 to 100.

```
C:\PROGRAMS\IV>build
C:\PROGRAMS\IV>set path=c:\MASM\bin

C:\PROGRAMS\IV>ml -Fl program1.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993.  All rights reserved.

 Assembling: program1.asm

Microsoft (R) Segmented Executable Linker  Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992.  All rights reserved.

Object Modules [.obj]: program1.obj
Run File [program1.exe]: "program1.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:

C:\PROGRAMS\IV>program1

Enter a number between 0 and 100 (Celsius): 25
25
77
```

Program #2 **20%**
Due: 04/24/2017
Assignment: