

# ECE 376 - Homework #2

Assembler, Flow Charts, Binary Inputs. Due Monday, January 27th

Please make the subject "ECE 376 HW#2" if submitting homework electronically to Jacob\_Glower@yahoo.com (or on blackboard)

1) Convert the following C code to assembler:

```
unsigned char A, B, C;  
  
C = max(A, B);
```

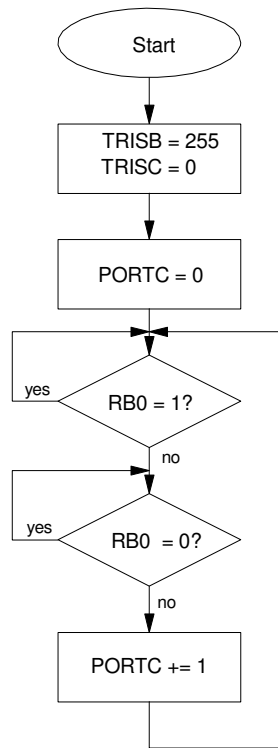
2) Convert the following C code to assembler:

```
unsigned int A, B, C;  
  
A = 7241;  
B = 1893;  
  
C = A + B;
```

3a) Convert the following C code to assembler

```
while(1) {  
  
    PORTC = 5 + PORTB;  
    PORTD = 5 - PORTB;  
  
}
```

4) The flow chart below gives a program which counts how many times button RB0 is pressed. Convert this code to assembler.



5) The flow chart below turns your PIC into a comparator: the light lit up on PORTD depends upon the number input on PORTB with the push buttons

Write an assembler program to impliment this program.

PORTB (input)	PORTC (output)	PORTD (output)			>	=	<
0 to 255 (input from buttons)	73 decimal						

