EE 2004
Week 4 Tutorial

1. Status register

```
10.    MyReg equ 0x20
11.
12.    ;-------------------------------------------------------------
13.
14.                            ORG        0x0000
15.                            goto  Main  ;go to start of main code
16.
17.    ;-------------------------------------------------------------\
18.    ;Start of main program
19.
20.    Main:                   movlw 0x57
21.                            addlw 0x44
22.
23.                            movlw 0x81
24.                            movwf MyReg, A
25.                            movlw 0x89
26.                            addwfc MyReg, W, A
27.
28.                            movlw 0x78
29.                            subwf MyReg, W, A
30.
31.                            movlw 0x99
32.                            xorwf MyReg, W, A
33.
34.                            movlw 0x0F
35.                            iorwf MyReg, W, A
36.
37.    ;*******************************************
38.    ;End of program
39.    ;
40.                            END
```

Determine the N, OV, C, DC and Z flags by hand after the execution of the bold lines in the above code fragement and then use MPLAB to verify your results.

2. BCD addition

Generate a MPLAB IDE project as in Tutorial MPLAB for Week 3. Write a program to perform an addition of the decimal numbers 4780 and 3599.