

**UNC Charlotte, Department of Electrical and Computer Engineering
ECGR 4101/5101, Fall 2012, Quiz #9**

Your name: _____

Write the comments for each line (what does each line do?).

```
void ADC_Init () {  
    SYSTEM.MSTPCRA.BIT.MSTPA23 = 0;  
  
    AD0.ADCSR.BYTE = 0x00;  
  
    AD0.ADCR.BYTE=0x0C;  
  
    AD0.ADDPR.BYTE=0x00;  
  
    AD0.ADDIAGR.BYTE=0x0;  
  
    AD0.ADCSR.BIT.ADST = 1 ;  
  
}
```

What does this code do?

```
while(1) {  
    if (AD0.ADCSR.BIT.ADST ==0 && i==0) {  
        ADC_value = AD0.ADDRA & 0X0FFF;  
        sprintf (ADC_OUT, "%d", ADC_value);  
        BSP_Display_String (LCD_LINE2, ADC_OUT);  
        i++;  
    }  
}
```