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++;
        }
    }
}
```