```
 1: /*
 2:   Initiating ADC Conversion:
 3:     1. Writing to ATD0CTL5
 4:     2. Edge on external trigger
 5:     3. Level on external trigger
 6:
 7:   Completed Conversion
 8:     1. Reading ATD0STAT1
 9:     2. Interrupt when complete
10: */
11:
12: #include <hidef.h>      /* common defines and macros */
13: #include <mc9s12dp512.h>     /* derivative information */
14: #pragma LINK_INFO DERIVATIVE "mc9s12dp512"
15:
16: #include "PLL.h"
17: #include "lcd.h"
18: #include "Timer.h"
19: #include <stdio.h>
20:
21: #include "SCI1.h"
22: #include "Fifo.h"
23: #include "Xbee.h"
24:
25: volatile char whee;
26:
27: void main(void) {
28:   int i;
29:   DDRP |= 0x80;
30:   PLL_Init(); // 24 MHz
31:   Timer_Init();
32:   LCD_Open();
33:   Fifo_Init();
34:   SCI1_Init(9600); // SCI output to PC
35:
36:   asm cli;
37:
38:     LCD_Clear();
39:
40:   XBee_Init();
41:   Timer_Wait10ms(100);
42:   for(;;) {
43:     long blah;
44:     FrameType frame;
45:     Fifo_Init();
46:     while(!XBee_RecieveTxFrame(&frame));
47:
48:     LCD_Clear();
49:     for(i=5; i<frame.length; i++) {
50:       if(i == 13) {
51:         LCD_GoTo(1,0);
52:       }
53:       LCD_OutChar(frame.data[i]);
54:     }
55:     Fifo_Init();
56:     PTP ^= 0x80;
57:   }
58: }
```