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1  /*****
2  Project : lcd_example.c
3  Version : 1.0
4  Date    : 7/08/2004
5  Author  : Chris Troutner
6  Company : MyRobot
7  Comments: This is the first example program.
8             It increments i every second, and
9             displays its value on the LCD.
10
11 Robot Type: Model -T or Mini -T
12 *****/
13 //Compiler Directives
14
15 //Includes
16 #include <model_t.h>
17
18 //Global Variables
19 char str[16];          //This variable is used to store a formatted string before it send sent to
20                        //the LCD.
21
22 //Main
23 int main(void)
24 {
25
26 //Local Variables
27 float pi=3.1415926535898;
28
29 //Initialization
30 reset();              //Reset and all ports and peripherals
31
32 lcd_init();           //Initialize the LCD
33
34 //Main Execution Code
35
36
37
38 while (1)              //Loop forever.
39 {
40     //This block illustrates how to display a line of text using the line1() function call
41     //and the strcpy() line formatting function.
42     strcpy(str, "This is on Line1");
43     line1(str);
44
45     //This block illustrates how to use the sprintf() formatting function and the line2()
46     //function to display text on line 2 of the LCD.
47     sprintf(str, "pi = %1.9f", pi);
48     line2(str);
49
50     ms_spin(5000);      //Wait 5000 milliseconds (5 seconds)
51
52     clr_lcd();          //Clear the LCD display
53
54     //This function uses the pstrp() function to center the string 'Centered' on line 1 of

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55 //the LCD.
56 strcpy(str, "Centered"); //Copy the string 'Centered' to the character
57 //array 't'.
58 pstrp(str, 4); //Insert the string stored in 't' four characters
59 //in from line 1.
60 strcpy(str, "Lines"); //Copy the string 'Lines' to the character array 't'.
61 pstrp(str, 22); //Print the string stored in 't' five characters
62 //((22 - 17 = 5) in from line 2.
63
64 ms_spi n(5000);
65 }
66
67 }
68
69
70

```