LCD Display - Kit Version

```
 2    Exploring Arduino, Second Edition
 3    Code Listing 12-1: LCD Text with an Incrementing Number
 4    https://www.exploringarduino.com/content2/ch12
 5
 6    Copyright 2019 Jeremy Blum ( https://www.jeremyblum.com )
 7    Licensed under MIT ( https://github.com/sciguy14/Exploring-Arduino-2nd-Edition/blob/master/LICENSE.md )
 8    */
 9
10    //LCD text with incrementing number
11
12    //Include the library code:
13    #include <LiquidCrystal.h>
14
15    //Start the time at 0
16    int time = 0;
17
18    //Initialize the library with the numbers of the interface pins
19    LiquidCrystal lcd(2, 3, 4, 5, 6, 7);
20
21    void setup()
22    {
23      //Set up the LCD's number of columns and rows:
24      lcd.begin(16, 2);
25      // Print a message to the LCD.
26      lcd.print("Jeremy's Display");
27    }
28
29    void loop()
30    {
31      //Move cursor to second line, first position
32      lcd.setCursor(0,1);
33      //Print Current Time
34      lcd.print(time);
35      //Wait 1 second
36      delay(1000);
37      //Increment the time
38      time++;
```

```
67      B11111,
68    };
69
70    void setup()
71    {
72      //Set up the LCDs number of columns and rows:
73      lcd.begin(16, 2);
74      // Print a message to the LCD.
75      lcd.print("Jeremy's Display");
76
77      //Make progress characters
78      lcd.createChar(0, p20);
79      lcd.createChar(1, p40);
80      lcd.createChar(2, p60);
81      lcd.createChar(3, p80);
82      lcd.createChar(4, p100);
83    }
84
85    void loop()
86    {
87      //Move cursor to second line
88      lcd.setCursor(0,1);
89      //Clear the line each time it reaches the end
90      //with 16 " " (spaces)
91      lcd.print("                ");
92
93      //Iterate through each character on the second line
94      for (int i = 0; i<16; i++)
95      {
96        //Iterate through each progress value for each character
97        for (int j=0; j<5; j++)
98        {
99          lcd.setCursor(i, 1); //Move the cursor to this location
100         lcd.write(j);        //update progress bar
101         delay(100);          //wait
102       }
```