TERRAN BLAKE // WEDNESDAY 7:30AM // ECE 241

```
#include<LiquidCrystal.h>

int minutes = 00;       //These global integers keep the value of the clock
int sec = 00;
int hr = 0;

const long interval = 1000;                     //This interval is equal to 1 second and will be added to seconds
unsigned long oldMillis = 0;
LiquidCrystal LcdDriver(11, 9, 5, 6, 7, 8);
int count;

void setup() {
  // put your setup code here, to run once:
LcdDriver.begin(16, 2);
LcdDriver.clear();
LcdDriver.setCursor(0, 0);
}

void loop() {

LcdDriver.setCursor(0,1);
unsigned long currentMillis = millis();

 if(currentMillis - oldMillis >= interval) {          //This sets up the timer so that it can add one second to the integer
   oldMillis = currentMillis;
   sec++;

   if(hr < 10) {
     LcdDriver.print(0);                            //Prints an extra 0 if hr < 10
 }
   LcdDriver.print(hr);                             //These LcdDriver print values print the values of the clock
   LcdDriver.print(":");
   LcdDriver.print(minutes);

   if(minutes < 10) {
     LcdDriver.print(0);                            //Prints an extra 0 if minutes < 10
 }
   LcdDriver.print(":");

   if(sec < 10) {
     LcdDriver.print(0);                            //Prints an extra 0 if minutes < 10
 }
   LcdDriver.print(sec);

   if(sec > 59) {                                   //Adds to minutes whenever seconds is = to 60
     minutes++;
     sec = 0;
}
   if(minutes > 59) {                               //Adds to hours whenever minutes is = to 60
     hr++;
     minutes = 0;
}
   if(hr > 23) {                                    //Resets the clock whenever hours is = to 24
     hr = 0;
}
  }
}
```