

Name:

Date:

Class:

Arduino Sensor Code

This code works for Uno and Mega.

```
#include<Wire.h>
#include<LiquidCrystal_I2C.h>
#include <DHT.h>
#include <DHT_U.h>

#define DHTPIN 2
#define DHTTYPE DHT11

int co2;

LiquidCrystal_I2C lcd(0x27, 16, 2);
DHT dht(DHTPIN, DHTTYPE);

void setup()
{
  Serial.begin(9600);
  lcd.init();
  lcd.backlight();
  dht.begin();
}

void loop()
{
  float h = dht.readHumidity();
  float t = dht.readTemperature();
  co2 = analogRead(A0);

  lcd.setCursor(0,0);
  lcd.print("RH:");
  lcd.print((h));
  lcd.print("%");
```

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```
lcd.print(" ");  
lcd.print("T:");  
lcd.print(t);  
lcd.print((char)223 );  
lcd.print("C");  
  lcd.setCursor(0,2);  
lcd.print ("CO2:");  
lcd.print (co2);  
lcd.print ("ppm");  
  
  delay (10000);  
}
```