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#include <ESP8266WiFi.h>
#include "ThingSpeak.h"
#include
<LiquidCrystal.h>
const int rs = D0, en = D1, d4 = D2, d5 = D3, d6 = D4, d7 =
D5;
LiquidCrystal lcd(rs, en, d4, d5, d6, d7);

const char* ssid = "project";    //
your network SSID (name)
const char* password = "12345678";    // your network
password

WiFiClient  client;

unsigned long myChannelNumber = 2117975;
const char *
myWriteAPIKey = "AN1I6A4GRM3QRKJ0";
unsigned long lastTime = 0;
unsigned long
timerDelay = 30000;

void setup()

{
    WiFi.mode(WIFI_STA);
    ThingSpeak.begin(client);

    Serial.begin(9600);
    lcd.begin(16,2);
    lcd.setCursor(0,0);
    lcd.print("SPACE
X");
    delay(2000);
    pinMode(D7, OUTPUT);
}

void loop()
{

if(WiFi.status() !=
WL_CONNECTED){
    Serial.print("Attempting to connect");
    while(WiFi.status()
!= WL_CONNECTED){
        WiFi.begin(ssid, password);
        delay(5000);
    }

    Serial.println("\nConnected.");
}

float t = analogRead(A0);
delay(100);
t = t
* (5.0 / 1023.0);
delay(100);
t=t*50;

lcd.clear();
lcd.setCursor(0,0);
lcd.print("OIL
LVL:");
lcd.print(t);
lcd.print("ML");
delay(1500);

```

```
if(t<100)
{
  lcd.setCursor
  or(0,1);
  lcd.print("OIL LEVEL LOW");
  digitalWrite(D7,HIGH);
  delay(1000);
```

```

}
else
{
  digitalWrite(D7,LOW);
}
```

```

    int x = ThingSpeak.writeField(myChannelNumber, 1,
t, myWriteAPIKey);
```

```

}
```