```
#include <ESP8266WiFi.h>
#include "ThingSpeak.h"
#include
<LiquidCrystal.h>
const int rs = D5, en = D4, d4 = D3, d5 = D2, d6 = D1, d7 =
D0;
LiquidCrystal lcd(rs, en, d4, d5, d6, d7);
#include "HX711.h"
const int
LOADCELL_DOUT_PIN = D6;
const int LOADCELL_SCK_PIN = D7;
HX711 scale;
float calibration_factor
= 40;
float units;
const int buttonPin = D8;

int buttonState = 0;
const char* ssid =
"project";   // your network SSID (name)
const char* password =
"12345678";   // your network password

WiFiClient  client;

unsigned long
myChannelNumber = 2117208;
const char * myWriteAPIKey = "1MACIYWFPLYAXES1";
unsigned
long lastTime = 0;
unsigned long timerDelay = 30000;

void setup()
{
     lcd.begin(16,2);

lcd.setCursor(0,0);
    lcd.print("SPACE X");
    delay(2000);

 Serial.begin(9600);

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

scale.begin(LOADCELL_DOUT_PIN,
LOADCELL_SCK_PIN);
scale.set_scale(calibration_factor);
long zero_factor =
scale.read_average();

     pinMode(buttonPin, INPUT);

}

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.");
    }



units =
```

```
scale.get_units(),1;
 if (units < 0)
 {
   units = 0.00;
 }
  lcd.clear();

lcd.setCursor(0,0);
 lcd.print("PRESSURE:");
 lcd.print(units,1);




 buttonState =
digitalRead(buttonPin);
  delay(500);
 if (buttonState == HIGH)
 {

     scale.tare();

delay(500);//Reset the scale to zero
 }
 else
 {

 }

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




}
```