#include <SPI.h>

#include <HX711.h>

const byte address[6] = "00001";

#define DOUT 4

#define CLK 5

HX711 scale;

const int chipSelect = 4;

String dataString = "";

float calibration\_factor = 20230.09; //prev\_value 20230.09

float z = calibration\_factor;

int redPin = 9;

int greenPin = 10;

int bluePin = 11;

float nw=0;

float pw=0;

void setup() {

Serial.begin(9600);

Serial.println("HX711 calibration sketch");

pinMode(redPin,OUTPUT);

pinMode(greenPin,OUTPUT);

pinMode(bluePin,OUTPUT);

scale.begin(DOUT, CLK);

scale.set\_scale();

scale.tare(); //Reset the scale to 0

long zero\_factor = scale.read\_average(); //Get a baseline reading

Serial.print("Zero factor: "); //This can be used to remove the need to tare the scale. Useful in permanent scale projects.

Serial.println(zero\_factor);

}

void loop()

{

float y;

String z;

scale.set\_scale(calibration\_factor); //Adjust to this calibration factor

// Serial.print("Reading: ");

y = (scale.get\_units());

if (Serial.available())

{

char temp = Serial.read();

if (temp == '+' || temp == 'a')

calibration\_factor += 500;

else if (temp == '-' || temp == 'z')

calibration\_factor -= 500;

else if (temp == '+' || temp == 's')

calibration\_factor += 1000;

else if (temp == '-' || temp == 'x')

calibration\_factor -= 1000;

}

//z = String(y);

nw=y;

Serial.print(nw);

Serial.print(",");

Serial.print(" kgs"); //Change this to kg and re-adjust the calibration factor if you follow SI units like a sane person

//Serial.print(" calibration\_factor: ");

//Serial.println(calibration\_factor);

Serial.println();

pw=nw;

delay(100);

}