#include "HX711.h"

#include <SD.h>

#include <SPI.h>

File myFile;

HX711 scale;

//const int ActiveFile = "LoadCellWriteTest.exe";

const int CodeEStop = 8; //User Estop in Code

const int ButtonInput = 4; //User Input

uint8\_t dataPin = 6; //Load Cell Setup

uint8\_t clockPin = 7; //Load Cell Setup

float w1, w2, previous = 0; //Load Cell Setup

int pinCS = 10; //Read Write Setup

void setup() {

pinMode(4, INPUT);

scale.begin(dataPin, clockPin);

scale.set\_scale(3972.86962);

scale.tare();

Serial.begin(9600);

pinMode(pinCS, OUTPUT);

if (SD.begin()) //SD Card Initialization

{

Serial.println("SD card ready for use.");

}

else

{

Serial.println("SD card initialization failed");

return;

}

myFile = SD.open("file.txt", FILE\_WRITE); //Create and Open File

}

void loop()

{

//Find Sensing Data for Each Loop

w1 = scale.get\_units(10); //Weight of Load Cell

//Record Data if Action is Taken

if (digitalRead(ButtonInput) == HIGH)

{

myFile = SD.open("file.txt", FILE\_WRITE); //Create and Open File

if (myFile)

{

Serial.println("Writing to file...");

myFile.println(w1);

Serial.println(w1);

myFile.close(); //Closes file

}

//if file doesnt open, print an error

else {

Serial.println("error opening test.txt");

}

Serial.println("Done.");

while (digitalRead(ButtonInput) == HIGH) {}

}

if (digitalRead(CodeEStop) == HIGH) {

myFile.close(); //Closes file

Serial.print("Done.");

}

}