//Note: Test of the ability for the arduino to save data to an SD Card so it can be read back later. Code works great except it writes the data to the test file twice, and I am unsure why…

#include <SD.h>

#include <SPI.h>

File myFile;

int pinCS = 10;

void setup() {

Serial.begin(9600);

pinMode(pinCS, OUTPUT);

//SD Card Initialization

if (SD.begin())

{

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

} else

{

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

return;

}

//Create and Open File

myFile = SD.open("test.txt", FILE\_WRITE);

//if file opened, write to it

if(myFile) {

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

//Writing File!!!

myFile.println("Hello World!");

myFile.close(); //Closes file

Serial.println("Done.");

}

//if file doesnt open, print an error

else {

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

}

//Reading the file

myFile = SD.open("test.txt");

if(myFile) {

Serial.println("Read:");

//Reading whole file

while (myFile.available()) { //Read is only 1 character at a time, so myFile.avaialble continues until there is no more data to read

Serial.write(myFile.read());

}

myFile.close();

}

else {

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

}

}

void loop() {

// None Here

}