#include <SPI.h>

#include <Adafruit\_BMP085.h>

#include <SD.h>

Adafruit\_BMP085 bmp;

int aux =0;

void setup() {

// put your setup code here, to run once:

// Serial.begin(9600);

// while (!Serial) {

// ; // wait for serial port to connect. Needed for native USB port only

// }

// Serial.print("Initializing SD card and bmp...");

pinMode(7, OUTPUT);

pinMode(6, OUTPUT);

pinMode(7, LOW);

pinMode(6, LOW);

if (!bmp.begin()) {

// Serial.println("bmp nao encontrado.");

digitalWrite(7, HIGH);

while (1) {}

}

else{

// Serial.println("bmp ok");

digitalWrite(7, LOW);

}

if (!SD.begin(4)) {

// Serial.println("initialization failed!");

digitalWrite(6, HIGH);

return;

}

// Serial.println("initialization done.");

digitalWrite(6, LOW);

// else{

// digitalWrite(7, LOW);

// }

// if (!SD.begin(4)) {

// digitalWrite(6, HIGH);

// while (1) {}

// }

// else{

// digitalWrite(6, LOW);

// }

}

void loop() {

// put your main code here, to run repeatedly:

// Abre o arquivo arquivo.txt do cartao SD

// Serial.println("inicio");

File dataFile = SD.open("ARQUIVO.txt", FILE\_WRITE);

// Serial.println("abrindo arquivo");

// Grava os dados no arquivo

for(aux = 0; aux <100; aux++){

if (dataFile)

{

dataFile.print(aux);

dataFile.print(" : ");

dataFile.println(bmp.readAltitude()); //pegar a altitude

// Serial.println("gravando");

// Serial.println(aux);

delay(100);

}

}

dataFile.close();

while(1);

}