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/*
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  Description: The Arduino code for DK Design's music box. Other blocks will be added to this
  code as time goes on.
*/

#include <SD.h> /* The library for SD card activities */
#include <SPI.h> /* The library allowing Arduino to communicate with devices such as SD cards
*/
#include <TMRpcm.h>

const int chipSelect = 4; /* The Adafruit data storage shield communicates through digital pin 4
*/
File logfile; /* Initialize file to write to */
TMRpcm audio;

void setup() {
  Serial.begin(9600); /* Baudrate */
  pinMode(10, OUTPUT); /* Configures digital pin 10 for output */
  if (!SD.begin(chipSelect)) { /* If no SD card detected */
    Serial.println("No SD card detected!"); /* Inform through serial */
    return; /* Then exit */
  }
}

void loop() {
  int button = 0;
  char filename[] = "track1.wav"; /* A dummy filename */
  if (Serial.available()){
    if (Serial.read() == 'r'){
      audio.startRecording(filename,16000,A0);
      while (Serial.read() != 's'){
        Serial.println("Recording...");
      }
      audio.stopRecording(filename);
    }
  }
}

```