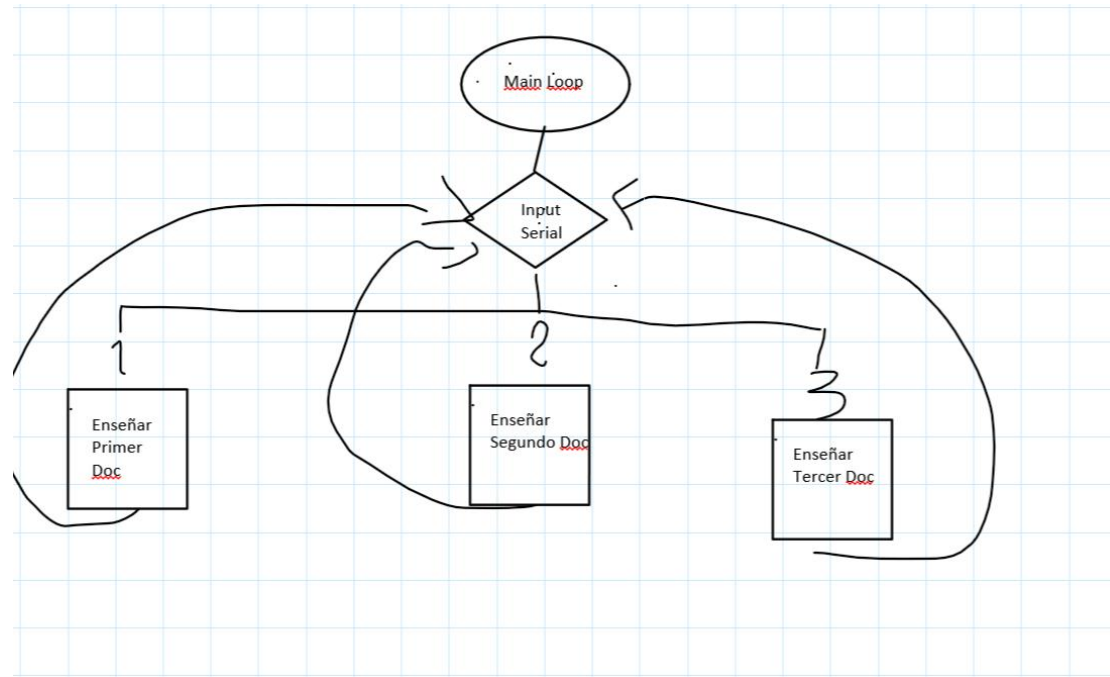


REPORTE #5: Almacenamiento SD en TIVA C

Link de repositorio: <https://github.com/Cue19275/Digital2>

Pre-lab:



Código:

```
#include <SPI.h>
#include <SD.h>

File root;
File myFile;

int input;

void setup()
{
    // Open serial communications and wait for port to open:
    Serial.begin(9600);
    SPI.setModule(0);

    Serial.print("Initializing SD card...");
    pinMode(PA_3, OUTPUT);

    if (!SD.begin(PA_3)) {
        Serial.println("initialization failed!");
        return;
    }
    Serial.println("initialization done.");

    Serial.println("INGRESE 1, 2 O 3 PARA IMPRIMIR EL ARCHIVO DESEADO");
    root = SD.open("/");

    printDirectory(root, 0);

    Serial.println("done!");
}

void loop()
{
    input = Serial.read();
    if(input = 49){
        myFile = SD.open("hongo.txt");
        if (myFile) {
            Serial.println("hongo.txt:");

            // read from the file until there's nothing else in it:
            while (myFile.available()) {
                Serial.write(myFile.read());
            }
            // close the file:
            myFile.close();
        }
    }
}
```

```
    } else {  
        // if the file didn't open, print an error:  
        Serial.println("error opening test.txt");  
    }  
  
    Serial.println("INGRESE 1, 2 O 3 PARA IMPRIMIR EL ARCHIVO  
DESEADO");  
    root = SD.open("/");  
  
    printDirectory(root, 0);  
  
    while(true) {  
  
        File entry = dir.openNextFile();  
        if (! entry) {  
            // no more files  
            break;  
        }  
        for (uint8_t i=0; i<numTabs; i++) {  
            Serial.print('\t');  
        }  
        Serial.print(entry.name());  
        if (entry.isDirectory()) {  
            Serial.println("/");  
            printDirectory(entry, numTabs+1);  
        } else {  
            // files have sizes, directories do not  
            Serial.print("\t\t");  
            Serial.println(entry.size(), DEC);  
        }  
        entry.close();  
    }  
  
}  
else if(input == 50){  
    myFile = SD.open("egg.txt");  
    if (myFile) {  
        Serial.println("egg.txt:");  
  
        // read from the file until there's nothing else in it:  
        while (myFile.available()) {  
            Serial.write(myFile.read());  
        }  
        // close the file:  
        myFile.close();  
    } else {  
        // if the file didn't open, print an error:  
        Serial.println("error opening test.txt");  
    }  
}
```

```
}

    Serial.println("INGRESE  1, 2  O 3  PARA  IMPRIMIR  EL  ARCHIVO
DESEADO");
    root = SD.open("/");

    printDirectory(root, 0);

    while(true) {

        File entry =  dir.openNextFile();
        if (! entry) {
            // no more files
            break;
        }
        for (uint8_t i=0; i<numTabs; i++) {
            Serial.print("\t");
        }
        Serial.print(entry.name());
        if (entry.isDirectory()) {
            Serial.println("/");
            printDirectory(entry, numTabs+1);
        } else {
            // files have sizes, directories do not
            Serial.print("\t\t");
            Serial.println(entry.size(), DEC);
        }
        entry.close();
    }

}

else if(input = 51){
    myFile = SD.open("trifo.txt");
    if (myFile) {
        Serial.println("trifo.txt:");

        // read from the file until there's nothing else in it:
        while (myFile.available()) {
            Serial.write(myFile.read());
        }
        // close the file:
        myFile.close();
    } else {
        // if the file didn't open, print an error:
        Serial.println("error opening test.txt");
    }

    Serial.println("INGRESE  1, 2  O 3  PARA  IMPRIMIR  EL  ARCHIVO
DESEADO");
    root = SD.open("/");
```

```
    printDirectory(root, 0);

    while(true) {

        File entry = dir.openNextFile();
        if (! entry) {
            // no more files
            break;
        }
        for (uint8_t i=0; i<numTabs; i++) {
            Serial.print("\t");
        }
        Serial.print(entry.name());
        if (entry.isDirectory()) {
            Serial.println("/");
            printDirectory(entry, numTabs+1);
        } else {
            // files have sizes, directories do not
            Serial.print("\t\t");
            Serial.println(entry.size(), DEC);
        }
        entry.close();
    }
}

void printDirectory(File dir, int numTabs) {
    while(true) {

        File entry = dir.openNextFile();
        if (! entry) {
            // no more files
            break;
        }
        for (uint8_t i=0; i<numTabs; i++) {
            Serial.print("\t");
        }
        Serial.print(entry.name());
        if (entry.isDirectory()) {
            Serial.println("/");
            printDirectory(entry, numTabs+1);
        } else {
            // files have sizes, directories do not
            Serial.print("\t\t");
            Serial.println(entry.size(), DEC);
        }
        entry.close();
    }
}
```

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Digital II
Sección 11
}

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