

Example Codes

NeoPixel Ring:

```
#include <Adafruit_NeoPixel.h>
#define PIN 6
#define NUMPIXELS 16

Adafruit_NeoPixel strip(NUMPIXELS, PIN, NEO_GRB + NEO_KHZ800);

Void setup(){
    Serial.begin(9600); //setting up the Baud Rate
    strip.begin() // Initialize the NeoPixel strip
    strip.show() //Initialize all the pixels to 'off'
}

Void loop(){

    if(index == 0){
        strip.clear(); //turning all the LEDs off
    }
    strip.setPixelColor(i, strip.Color(0,0,255)); //Blue color
    strip.show()
    Index = (index + 1) % NUMPIXELS; //keep the program looping through
indices of NeoPixel Ring
}
```

FSRs:

```
Void setup(){
    Serial.begin(9600); //setting the Baud Rate

    //Initialize the FSRs
    pinMode(A0, INPUT);
}

Void Loop(){
    Input = analogRead(A0); //Plugged FSR into A0
    Serial.println(input);
}
```

Buzzer:

```
Const int piezoPin = 9;

Void setup(){
    Serial.begin(9600);
    Serial.println("Piezo Buzzer Test");
}

Void Loop(){
    tone(piezoPin, 440, 500);
    delay(500);

    tone(piezoPin, 880, 500);
    delay(500);

    noTone(piezoPin);
    delay(500);
}
```

SD Card:

```
#include <SD.h>

File myFile;

void setup()
{
    Serial.begin(9600);
    Serial.print("Initializing SD card...");

    pinMode(10, OUTPUT);

    if (!SD.begin(10)) {
        Serial.println("initialization failed!");
        return;
    }

    Serial.println("initialization done.");
    myFile = SD.open("test.txt", FILE_WRITE);

    if (myFile) {
        Serial.print("Writing to test.txt...");
        myFile.println("testing 1, 2, 3.");
    }
}
```

```
        // close the file:
        myFile.close();
        Serial.println("done.");
    } else {
        Serial.println("error opening test.txt");
    }
}
```