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int FSR = A0; //FSR connected to analog pin 0
int level = 0; //variable for the level of force applied to the FSR

//LED Plate with Force Sensitive Resistor
int yellow = 11; //LEDs connected to each pin
int blue1 = 10;
int white = 9;
int green = 6;
int blue2 = 5;
int red = 3;

void setup() //run once to setup
{
pinMode (yellow, OUTPUT); //LED set as output
pinMode (blue1, OUTPUT);
pinMode (white, OUTPUT);
pinMode (green, OUTPUT);
pinMode (blue2, OUTPUT);
pinMode (red, OUTPUT);

//analog pins are automatically set to input
Serial.begin(9600);
}

void loop() //repeated routine
{

// first, read the pressure level
int level = analogRead(FSR);

Serial.println(level);
delay(0);

if(level <= 40) {
digitalWrite (yellow, HIGH);
digitalWrite (blue1, HIGH);
digitalWrite (white, HIGH);
digitalWrite (green, HIGH);
digitalWrite (blue2, HIGH);
digitalWrite (red, HIGH);
delay(100);
digitalWrite (yellow, LOW);
digitalWrite (blue1, LOW);
digitalWrite (white, LOW);
digitalWrite (green, LOW);
digitalWrite (blue2, LOW);
digitalWrite (red, LOW);
delay(100);
}
else {
analogWrite (yellow, level);
analogWrite (blue1, level);
analogWrite (white, level);
analogWrite (green, level);
analogWrite (blue2, level);
analogWrite (blue2, level);

}

}
}

```