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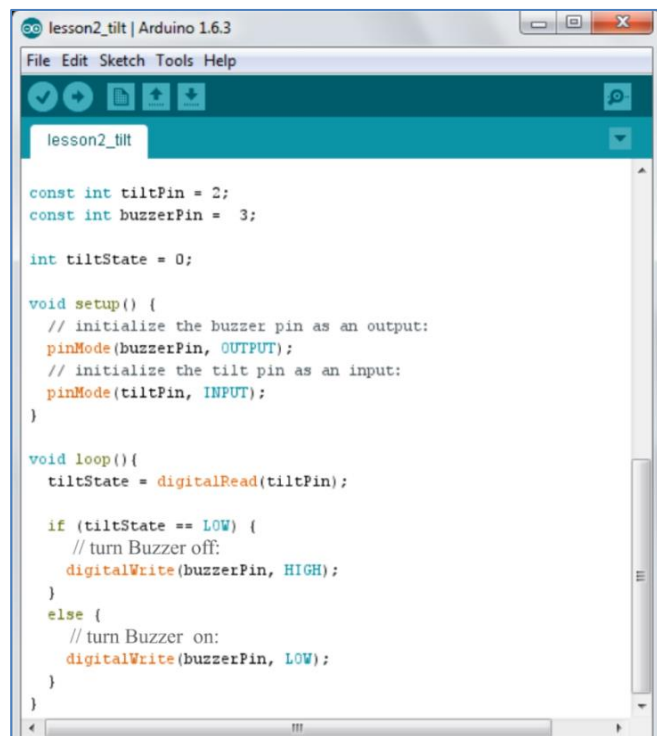
Introduction To Sensors – Lesson 2: Tilt Sensor

FORMULAS

The following formulas and information are meant to go with the online lesson found here:
<http://www.pyroelectro.com/edu/sensors/tilt/>

LESSON 2 ARDUINO PROGRAM

Here is the program that we wrote for lesson 2. This is a simple input/output program that reads digital pin 2 which is the tilt sensor input pin and then sets and output on digital pin 3, which is the buzzer alarm output.



```
lesson2_tilt | Arduino 1.6.3
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lesson2_tilt
const int tiltPin = 2;
const int buzzerPin = 3;

int tiltState = 0;

void setup() {
  // initialize the buzzer pin as an output:
  pinMode(buzzerPin, OUTPUT);
  // initialize the tilt pin as an input:
  pinMode(tiltPin, INPUT);
}

void loop(){
  tiltState = digitalRead(tiltPin);

  if (tiltState == LOW) {
    // turn Buzzer off:
    digitalWrite(buzzerPin, HIGH);
  }
  else {
    // turn Buzzer on:
    digitalWrite(buzzerPin, LOW);
  }
}
```

ADDITIONAL INFORMATION

If you have any questions about the formulas or information found in this document, please feel free to head on over to the forums and ask us some questions!
<http://www.pyroelectro.com/forums/viewforum.php?f=27>