

Program for Drowsiness Detector for Drivers using Eye Blink Sensor

```
const int blinkPin = 2;

const int motorPin = 13;

const int buzzerPin = 12;

long time; // Correctly declared long integer for time

const int debounceDelay = 50;

bool blinkPinState = HIGH;

bool lastBlinkPinState = HIGH;

void setup() {
  pinMode(motorPin, OUTPUT);
  pinMode(buzzerPin, OUTPUT);
  pinMode(blinkPin, INPUT);
  digitalWrite(motorPin, HIGH);
}

void loop() {
  int reading = digitalRead(blinkPin);

  if (reading != lastBlinkPinState) {
    delay(debounceDelay); // Debounce delay

    blinkPinState = reading;
  }

  if (blinkPinState == LOW) {
    time = millis();
    while (digitalRead(blinkPin) == LOW) {
      digitalWrite(buzzerPin, LOW);
      digitalWrite(motorPin, LOW);

      delay(1000); // This delay might need adjustment depending on desired behavior
    }
  } else {
```

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```
if (TimeDelay() >= 3) digitalWrite(buzzerPin, HIGH);  
if (TimeDelay() >= 4) digitalWrite(motorPin, HIGH);  
}  
lastBlinkPinState = reading;  
}  
int TimeDelay() {  
  long t = millis() - time;  
  t = t / 1000;  
  return t;  
}
```