

```

// Arduino Program for Touch Sensor (TTP223)
// When touched, LED will turn ON

int touchPin = 2; // Pin connected to Touch Sensor OUT
int ledPin = 13; // Pin connected to onboard LED (or external LED)

int sensorValue = 0;

void setup() {
    pinMode(touchPin, INPUT_PULLUP); // Set touch sensor pin as input
    pinMode(ledPin, OUTPUT); // Set LED pin as output
    Serial.begin(9600); // Start serial monitor for debugging
}

void loop() {
    sensorValue = digitalRead(touchPin); // Read touch sensor state

    if (sensorValue == HIGH) { // When sensor is touched
        digitalWrite(ledPin, HIGH); // Turn ON LED
        Serial.println("Touched");
    }
    else { // When not touched
        digitalWrite(ledPin, LOW); // Turn OFF LED
        Serial.println("Not touched");
    }

    delay(100); // Small delay for stability
}

```

