

```
int sensor = 2;

int state = LOW;

int val = 0;

const int buzzer = 3;

const int buzz = 6;

float temp;

int tempPin = 0;
```

```
void setup() {

  pinMode(sensor, INPUT);

  pinMode (buzzer, OUTPUT);

  pinMode (buzz, OUTPUT);

  Serial.begin(9600);

}
```

```
void loop(){

  temp = analogRead(tempPin);

  temp = temp * 0.48828125;

  Serial.print("TEMPERATURE = ");

  Serial.print(temp);

  Serial.print("*C");

  Serial.println();

  delay(1000);

  if(temp>=60)

  {

    digitalWrite(buzzer,HIGH);

    delay(200);

    digitalWrite(buzzer,LOW);
```

```
    delay(200);  
}
```

```
val = digitalRead(sensor);  
if (val == HIGH) {  
    tone(buzz, 10000,500);  
    delay(200);  
    noTone(buzz);  
    delay(200);
```

```
if (state == LOW) {  
    Serial.println("Motion detected!");  
    state = HIGH;  
}  
}
```

```
else {
```

```
    if (state == HIGH){  
        Serial.println("Motion stopped!");  
        state = LOW;  
    }  
}  
}
```

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CAD

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All changes saved

Code

Start Simulation

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Temperature Sensor [TMP36]

Name 4

Text

28 digitalWrite(buzzer,HIGH);
29 delay(200);
30 digitalWrite(buzzer,LOW);
31 delay(200);
32 }
33
34 val = digitalRead(sensor);
35 if (val == HIGH) {
36 tone(buzz, 10000,500);
37 delay(200);
38 noTone(buzz);
39 delay(200);
40
41
42 if (state == LOW) {
43 Serial.println("Motion detected!");
44 state = HIGH;
45 }
46 }
47
48 else {
49
50
51 if (state == HIGH){
52 Serial.println("Motion stopped!");
53 state = LOW;
54 }
55 }
56

Serial Monitor

TEMPERATURE = 19.04°C
TEMPERATURE = 19.04°C
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TEMPERATURE = 19.04°C
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TEMPERATURE = 19.04°C

Send

Clear

AAA

89°F
Mostly cloudy

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Code

Start Simulation

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Temperature Sensor [TMP36]

Name 4

Text

1 (Arduino Uno R3)

```
28 digitalWrite(buzzer,HIGH);
29 delay(200);
30 digitalWrite(buzzer,LOW);
31 delay(200);
32 }
33
34 val = digitalRead(sensor);
35 if (val == HIGH) {
36   tone(buzz, 10000,500);
37   delay(200);
38   noTone(buzz);
39   delay(200);
40
41
42   if (state == LOW) {
43     Serial.println("Motion detected!");
44     state = HIGH;
45   }
46 }
47
48 else {
49
50   if (state == HIGH){
51     Serial.println("Motion stopped!");
52     state = LOW;
53   }
54 }
55 }
```

Serial Monitor

TEMPERATURE = 19.04°C
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Send Clear

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Code

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The diagram illustrates a Tinkercad circuit project. An Arduino Uno microcontroller is connected to a breadboard. Two push buttons are connected to the breadboard, with their other ends connected to ground. A buzzer is connected to the breadboard, and a potentiometer is also connected. The circuit is designed to control the buzzer based on the state of the push buttons and the potentiometer. The breadboard is used to organize the components and their connections. The Arduino Uno is connected to the breadboard via jumper wires. The push buttons are connected to the breadboard, and the buzzer and potentiometer are also connected to the breadboard. The circuit is designed to control the buzzer based on the state of the push buttons and the potentiometer.

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