

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

Send Clear

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IN

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15-09-2022

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Serial Monitor

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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 its digital pins. The potentiometer is connected to the breadboard via its wiper and outer pins. The push buttons are connected to the breadboard via their terminals. The buzzer is connected to the breadboard via its pins. The circuit is designed to be simulated in Tinkercad.

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