SMART CITY WASTE MANAGEMENT

PROJECT URL:

https://wokwi.com/projects/362905058533886977

PROJECT CODE:

```
#include <DHT.h>
#define DHTPIN 3 // what pin we're connected to
#define DHTTYPE DHT11 // DHT 11
DHT dht(DHTPIN, DHTTYPE);
int pirPin = 2;  // PIR sensor pin
int ledPin = 7; // LED pin
int buzzerPin = 8; // Buzzer pin
int pirState = LOW; // current state of the PIR sensor
int lastPirState = LOW; // previous state of the PIR sensor
void setup() {
  pinMode(pirPin, INPUT);
 pinMode(ledPin, OUTPUT);
 pinMode(buzzerPin, OUTPUT);
 Serial.begin(9600);
 dht.begin();
}
void loop(){
 // Read PIR sensor state
 pirState = digitalRead(pirPin);
 // If the PIR sensor state has changed
  if (pirState != lastPirState) {
   // If motion is detected
   if (pirState == HIGH) {
     digitalWrite(ledPin, HIGH);
     digitalWrite(buzzerPin, HIGH);
     delay(500);
     digitalWrite(buzzerPin, LOW);
     Serial.println("Motion detected!");
    } else {
     digitalWrite(ledPin, LOW);
```

```
digitalWrite(buzzerPin, LOW);
    }
   // Remember the PIR sensor state for next time
   lastPirState = pirState;
  }
 // Read temperature and humidity
 float humidity = dht.readHumidity();
 float temperature = dht.readTemperature();
 // Print temperature and humidity to serial monitor
 Serial.print("Humidity: ");
 Serial.print(humidity);
 Serial.print("% Temperature: ");
 Serial.print(temperature);
 Serial.println("°C");
 delay(1000);
}
```

CONNECTION:

