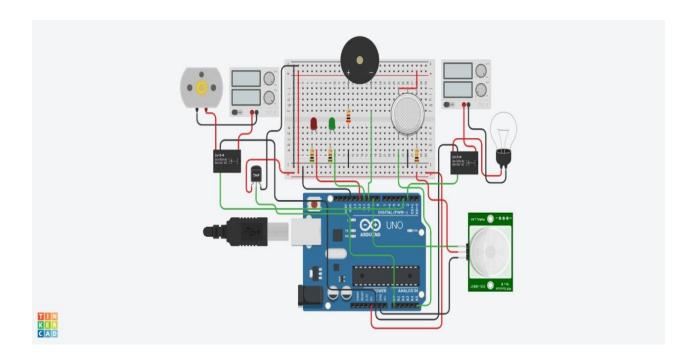
Assignment -1

Team ID	PNT2022TMID28587
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Student Roll Number	312819106002
Project Name	Smart Waste Management System for
	Metropolitan Cities

Question: Build a Smart home in Tinkercad with 2 Sensors ,an LED and buzzer



CODE:

int LED1 = 12;

int LED2 = 11;

int buzzer = 10;

int smoke = A5;

int bulb = 2;

int fan = 3;

```
int smokeThreshold = 500;
int inputPir = 9;
int baselineTemp = 0;
int celsius = 0;
int val = 0;
void setup() {
 pinMode(LED1, OUTPUT);
 pinMode(LED2, OUTPUT);
 pinMode(buzzer, OUTPUT);
 pinMode(smoke, INPUT);
 pinMode(inputPir, INPUT);
 pinMode(bulb, OUTPUT);
 pinMode(fan, OUTPUT);
 Serial.begin(9600);
}
void loop() {
 int analogSensor = analogRead(smoke);
 val = digitalRead(inputPir);
 baselineTemp = 40;
```

```
celsius = map(((analogRead(A0) - 20) * 3.04), 0, 1023, -40,
125);
 Serial.print(" TEMP: ");
 Serial.print(celsius);
 Serial.print(" C, ");
if (celsius < 25) {
  digitalWrite(fan, LOW);
if (celsius > 25) {
  digitalWrite(fan, HIGH);
 }
 Serial.print("Co2: ");
 Serial.print(analogSensor);
if (analogSensor > smokeThreshold)
  digitalWrite(LED1, HIGH);
  digitalWrite(LED2, LOW);
  tone(buzzer, 1000, 350);
else
  digitalWrite(LED1, LOW);
  digitalWrite(LED2, HIGH);
```

```
noTone(buzzer);
delay(100);
Serial.print(", PIR: ");
Serial.println(val);
if(val == HIGH)
  {
   digitalWrite(bulb, HIGH);
   delay(2000);
else
   digitalWrite(bulb, LOW);
   delay(300);
}
```