SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

ASSIGNMENT-1

SUBMITED BY:

S. Pavithra

ECE-IV

THAMIRABHARANI ENGINEERING COLLEGE

Circuit design Magnificent Jofo | X

tinkercad.com/things/6k71r5jGc0n-magnificent-jofo/editel

Magnificent Jofo

All changes saved

Code | Start Simulation | Send To

Blocks + Text

1 (Arduino Uno R3)

Output | Control
Input | Math
Notation | Variables

set built-in LED to HIGH
set pin 0 to HIGH
set pin 3 to 0
rotate servo on pin 0 to 0 degr
play speaker on pin 0 with tone 60
turn off speaker on pin 0
print to serial monitor hello world with
set RGB LED in pins 3 6 5

set gas to read analog pin A0
if gas > 250 then
set pin 11 to HIGH
set pin 13 to LOW
play speaker on pin 7 with tone 42 for 1 se
else
set pin 11 to LOW
set pin 13 to HIGH
turn off speaker on pin 7

```
// C++ code
//
int gas = 0;

void setup()
{
  pinMode(A0, INPUT);
  pinMode(11, OUTPUT);
  pinMode(13, OUTPUT);
  pinMode(7, OUTPUT);
}

void loop()
{
  gas = analogRead(A0);
  if (gas > 250) {
    digitalWrite(11, HIGH);
    digitalWrite(13, LOW);
    tone(7, 185, 1000); // play tone 42 (F#3 = 185 Hz)
  } else {
    digitalWrite(11, LOW);
    digitalWrite(13, HIGH);
    noTone(7);
  }
  delay(10); // Delay a little bit to improve simulati
}
```

Serial Monitor

Circuit design Magnificent Jo

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Magnificent Jofo

All changes saved

Simulator time: 00:00:05.668

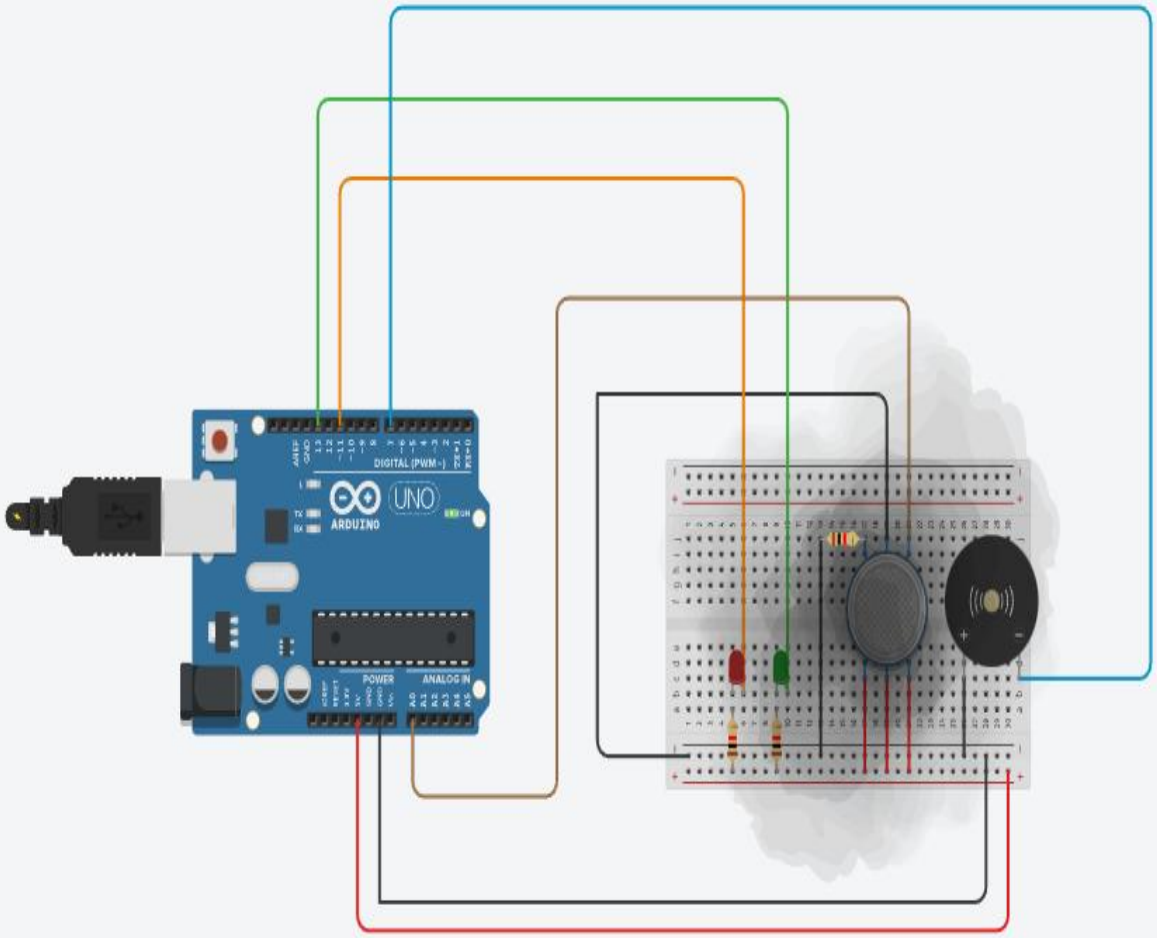
Code

Stop Simulation

Send To

Gas Sensor

Name 1



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Serial Monitor

Type here to search

5:40 PM
9/23/2022

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[code]
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[/code]
```