#### ASSIGNMENT 1

Assignment Date	12 September 2022	
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Max Marks	2	

#### Question-1:

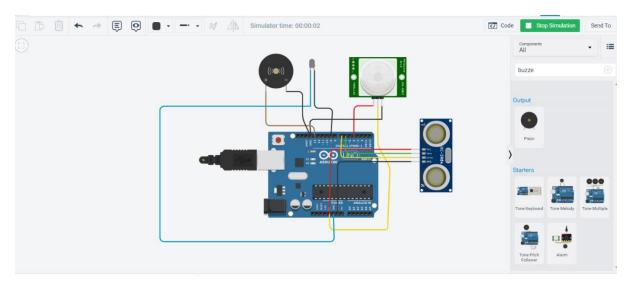
Build an smarthome iot device using an audrino uno microcontroller and attach at least 2 sensors in it .

```
// C++ code
int gasSensor=A1;
int buzzer=13;
int led=12;
int motor=5;
void setup()
 pinMode(gasSensor, INPUT);
 pinMode(buzzer,OUTPUT);
 pinMode(led,OUTPUT);
 pinMode(motor,OUTPUT);
  Serial.begin(9600);
}
void loop()
  int sensorValue=analogRead(A1);
  Serial.print("GAS SENSOR LEVEL: ");
  Serial.println(sensorValue);
  delay(2000); // Wait for 2000 millisecond(s)
  if(sensorValue>200) //if sensor level detects above 200 buzzer sound will
produce
  {
    digitalWrite(buzzer, HIGH);// buzzer will turn on
        digitalWrite(led,HIGH); // led will glow
    digitalWrite(motor, HIGH);// exhaust fan will turn on
  }
  else
  {
    digitalWrite(buzzer,LOW);
    digitalWrite(led,LOW);
    digitalWrite(motor,LOW);
  }
}
```

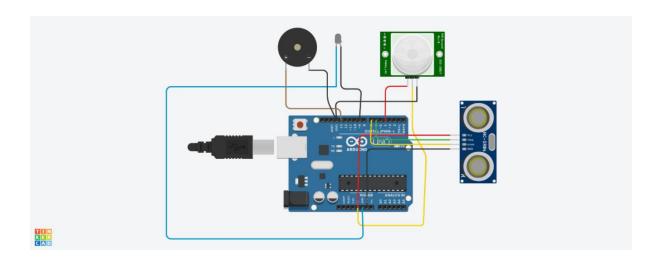
# Components

Name	Quantity	Component
D1	1	Gas Sensor
Piezo 1	1	Piezo
D1	1	Red Led
M1	1	De Motor
U1	1	Arduino Uno R3

### CIRCUIT DIAGRAM:



### **SIMULATION:**



## **SCHEMATIC:**

