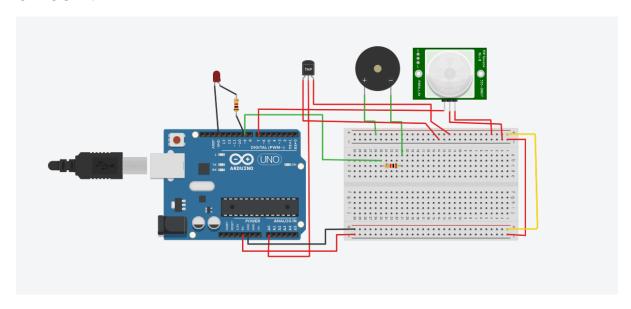
GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

ASSIGNMENT 1-SMART HOME

CIRCUIT:



CODE:

const int buzzer = 9;

int sensePin = A0;

int sensorInput;

double temp;

#define pirPin 7

int calibrationTime = 30;

long unsigned int lowIn;

long unsigned int pause = 5000;

boolean lockLow = true;

boolean takeLowTime;

int PIRValue = 0;

void setup(){

```
Serial.begin(9600);
pinMode(pirPin, INPUT);
pinMode(buzzer, OUTPUT);
}
void loop(){
sensorInput = analogRead(A0);
temp = (double)sensorInput / 1024;
temp = temp * 5;
temp = temp-0.5;
temp = temp * 100;
if(temp > 60){
tone(buzzer, 1000);
delay(1000);
noTone(buzzer);
delay(1000);}
Serial.print("Current Temperature: ");
Serial.println(temp);
PIRSensor();
}
void PIRSensor() {
if(digitalRead(pirPin) == HIGH) {
Serial.print("Motion Detected");
tone(buzzer, 2000);
delay(1000);
noTone(buzzer);
delay(1000);}
}
```

OUTPUT:

