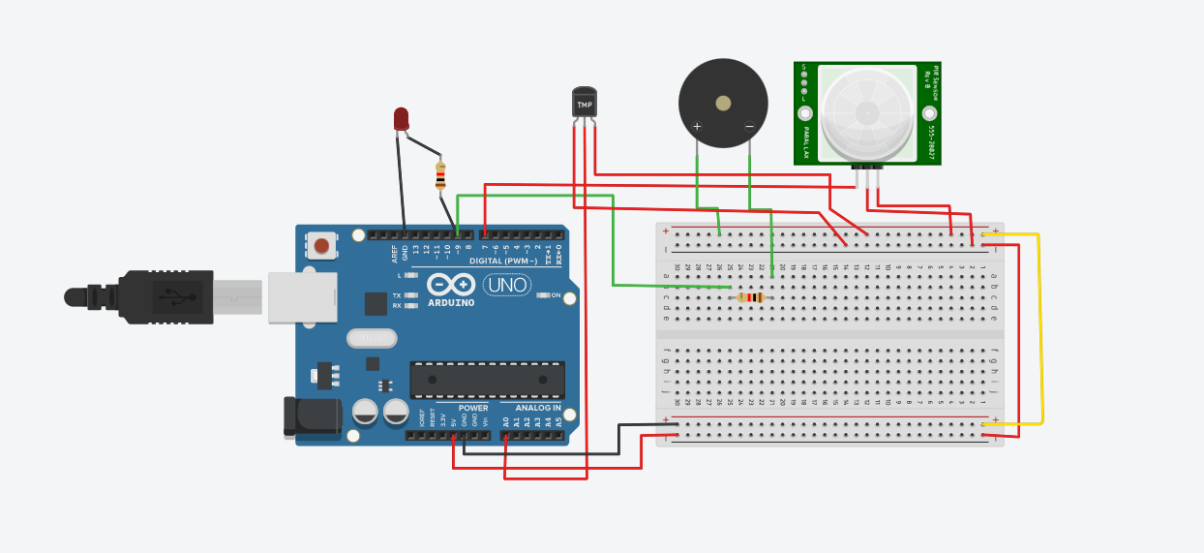
GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

ASSIGNMENT 1

CIRCUIT DIAGRAM:

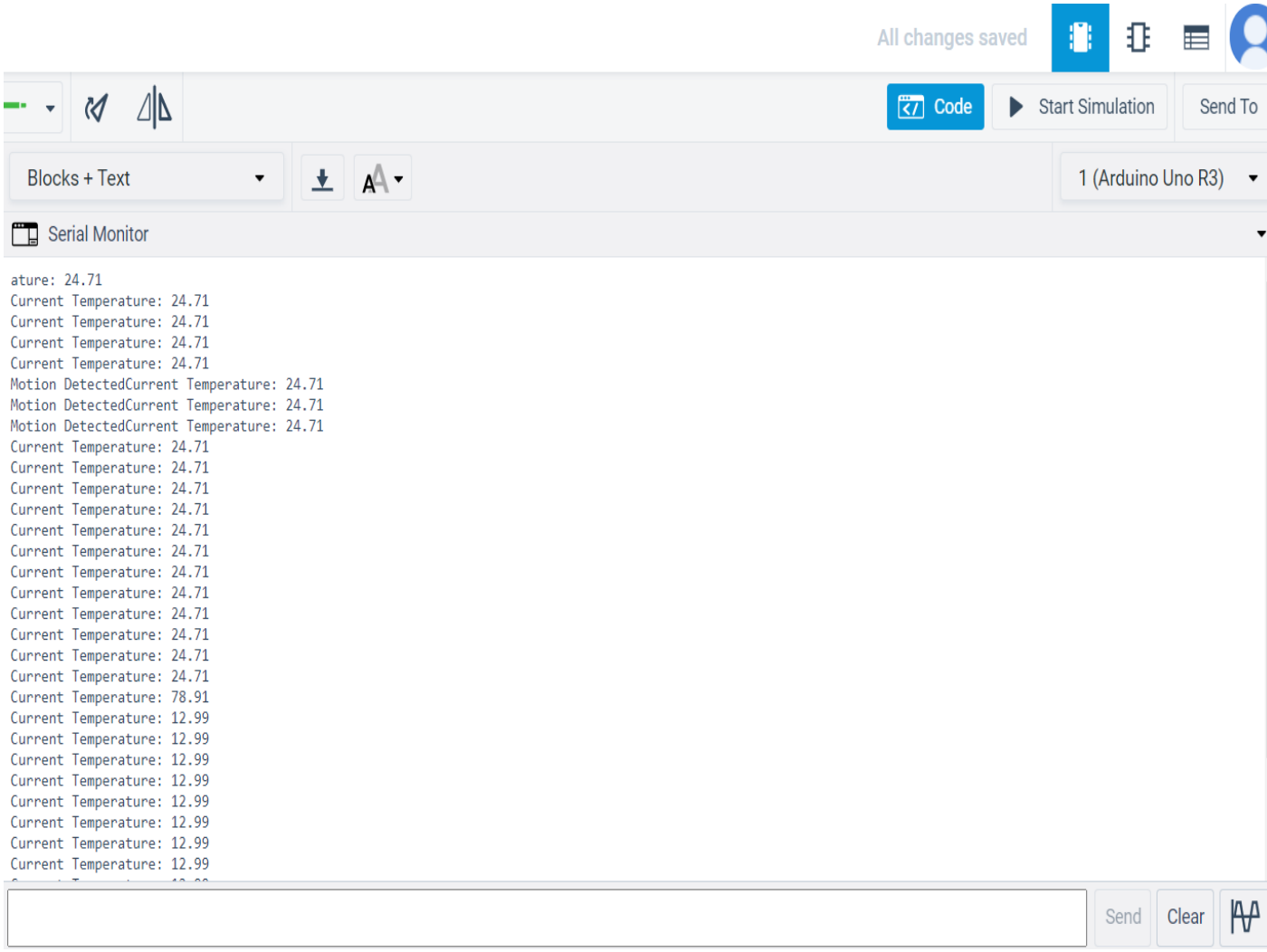


CODE:

```
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:


All changes saved
Code
Start Simulation
Send To
Blocks + Text
1 (Arduino Uno R3)
Serial Monitor
ature: 24.71
Current Temperature: 24.71
Current Temperature: 24.71
Current Temperature: 24.71
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Current Temperature: 24.71
Current Temperature: 24.71
Current Temperature: 24.71
Current Temperature: 78.91
Current Temperature: 12.99
Current Temperature: 12.99
Current Temperature: 12.99
Current Temperature: 12.99
Current Temperature: 12.99
Current Temperature: 12.99
Current Temperature: 12.99
Current Temperature: 12.99
Send
Clear