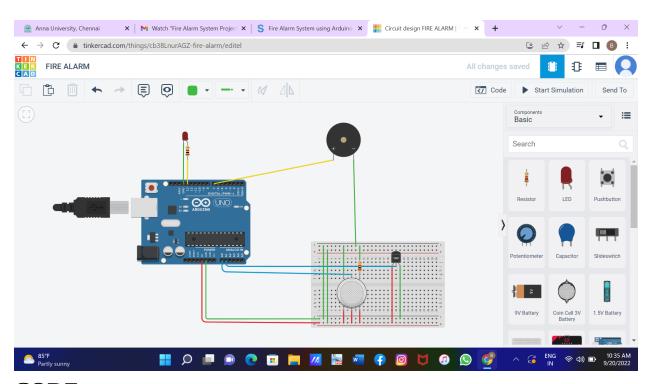
ASSIGNMENT 1

FIRE ALARM SYSTEM

COMPONENTS USED:

- 1.Arduino UNO
- 2. Temperature Sensor
- 3.Gas Sensor
- 4.Resistor
- 5.Breadboard
- 6.LED
- 7.Piezo buzzer
- 8. Jumper wires

CIRCUIT DIAGRAM:



CODE:

```
float temp;
float vout;
float vout1;
int LED = 13;
int gasSensor;
int piezo = 7;
void setup()
pinMode(A0,INPUT);
pinMode(A1,INPUT);
pinMode(LED,OUTPUT);
pinMode(piezo,OUTPUT);
Serial.begin(9600);
void loop()
vout=analogRead(A1);
vout1=(vout/1023)*5000;
temp=(vout1-500)/10;
gasSensor=analogRead(A0);
if (temp>=80)
digitalWrite(LED,HIGH);
else
digitalWrite(LED,LOW);
if (gasSensor>=100)
digitalWrite(piezo,HIGH);
else
digitalWrite(piezo,LOW);
```

```
Serial.print("in DegreeC= ");
Serial.print(" ");
Serial.print(temp);
Serial.print("\t");
Serial.print("GasSensor= ");
Serial.print(gasSensor);
Serial.print(gasSensor);
Serial.println();
delay(1000);
}
```