# **Assignment -1**

| Assignment Date     | 08.09.2022      |
|---------------------|-----------------|
| Student Name        | K. Jeyavarshini |
| Student Roll Number | 142219106038    |
| Maximum Marks       | 2 Marks         |

# **Question-1:**

Smart home automation using tinkercad, by interfacing 2 or more sensors?

### **SMART HOME AUTOMATION**

### **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(A0);
vout1=(vout/1023)*5000;
temp=(vout1-500)/10;
gasSensor=analogRead(A1);
if(temp > = 80)
digitalWrite(LED,HIGH);
else
digitalWrite(LED,LOW);
```

```
if(gasSensor >=100)
{
    digitalWrite(piezo,HIGH);
}
    else
{
    digitalWrite(piezo,LOW);
    Serial.print("in degrees =");
    Serial.print(temp);
    Serial.print(temp);
    Serial.print("gasSensor");
    Serial.print(gasSensor);
    Serial.print(gasSensor);
    Serial.print(n);
    delay(1000);
}
```

# **CIRCUIT SETUP:**



