# ASSIGNMENT 1

**OBJECTIVE:**

To make a Smart Home in Tinkercad , using 2 sensors , LED ,Buzzer in single code and circuit

**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,OUTPU
T);
pinMode(piezo,OUTPU
T); Serial.begin(9600);
}
void loop()
{
vout=analogRead(A1);
vout1=(vout/1023)*500;
```

```
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(" ");
Serial.print(gasSensor);
Serial.println()
```

delay(1000);

}


**OUTPUT:**