

**Assignment -1**  
Tinkercad circuit

Assignment Date	19 September 2022
Student Name	Mr. Ahamed Habeeb Ansari
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Maximum Marks	2 Marks

**Question-1:**

Build a smart home in tinkercard

**Program:**

```
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(" ");
Serial.print(gasSensor);
Serial.println();
delay(1000);
}

```

