Assignment -1 SMART HOME IN TINKERCAD

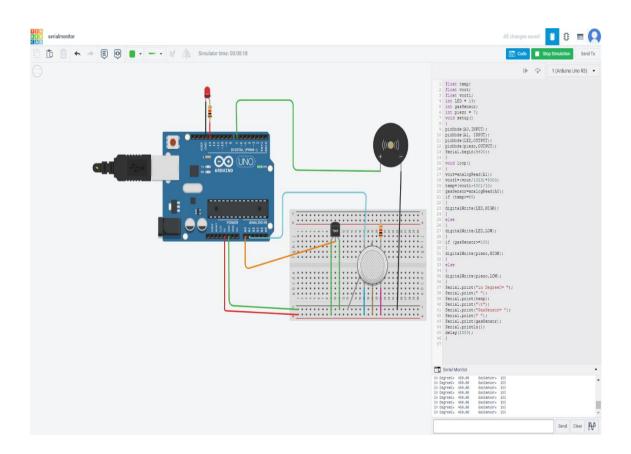
Assignment Date	19 September 2022
Student Name	M.RITHIKA
Student Roll Number	815119106034
Maximum Marks	2 Marks

Question-1:

Build a smart home in tinkercad

Use atleast 2 sensors, led, buzzer in a circuit. Simulate in a single code.

Solution:



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