## Assignment -1

Tinkercad

Assignment Date	19 September 2022
Student Name	K. S. Dinesh Kumar
Student Roll Number	812419106017
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:**

```
float temp;
float Vout;
float Vout1;
int LED=13;
int gasSensor;
int piezo=7;
void setup()
{
  pinMode(A0,]NPUT);
pinMode(A1,I \ PUT);
pinMode(LED, (UTPUT);
pinMode(piez c, 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);
   }
```

