INTERNET OF THINGS

ASSIGNMENT-1

Assignment Date	19 September 2022
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Student Roll Number	SSNCE193002113
Maximum Marks	2 Marks

Question:

Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.

CODE:

```
#include <Servo.h>
 int TEMP = 0;
int GAS = 0;
int MOTION = 0;
Servo servo_2;
void setup()
{
pinMode(A0, INPUT);
pinMode(A1, INPUT);
pinMode(6, INPUT);
Serial.begin(9600);
pinMode(4, OUTPUT);
servo_2.attach(2, 500, 2500);
}
void loop()
{
TEMP = (-40 + 0.488155 * (analogRead(A0) - 20));
GAS = analogRead(A1);
MOTION = digitalRead(6);
if (TEMP > 80 && GAS > 150)
{
        Serial.println("FIRE ALERT !!!");
        digitalWrite(4, HIGH);
        if (MOTION == 1)
        {
                Serial.println("DOOR OPEN >>>>>");
                servo_2.write(90);
        }
        else
        {
                servo_2.write(0);
        }
```

```
else
{
        digitalWrite(4, LOW);
        servo_2.write(0);
}
delay(10);
}
```