

Assignment -1

Home Automation

Assignment Date	09 September 2022
Student Name	Kiruthika J
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Maximum Marks	2 Marks

Question:

1. **Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit.**

Solution:

Code:

```
float x,y,z,temp;

void setup()
{
    pinMode(8, INPUT);
    pinMode(5, OUTPUT);
    pinMode(6, OUTPUT);
    pinMode(A5, INPUT);
    pinMode(A4, INPUT);
    Serial.begin(9600);
}

void loop()
{
    x= digitalRead(8);
    y= analogRead(A5);
    z= analogRead(A4);
    Serial.println(x);
    Serial.println(y);
    Serial.println(z);
    temp = (double)z / 1024;
```

```
temp = temp * 5;
temp = temp - 0.5;
temp = temp * 100;
if ( (x>0) )
{
    if ((y<550)&&(temp>30))
    {
        digitalWrite(5, HIGH);
        digitalWrite(6, HIGH);
    }
    else if((y<550)&&(temp<30))
    {
        digitalWrite(5, HIGH);
        digitalWrite(6, LOW);
    }
    else if((y>550)&&(temp>30))
    {
        digitalWrite(5, LOW);
        digitalWrite(6, HIGH);
    }
    else if((y>550)&&(temp<30))
    {
        digitalWrite(5, LOW);
        digitalWrite(6, LOW);
    }
}
else
{
    digitalWrite(5, LOW);
    digitalWrite(6, LOW);
}}
```

Output Screenshot:

