

**Assignment -1**  
**Home Automation**

Assignment Date	18 October 2022
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Maximum Marks	2 Marks

**Question-1:**

Make a home automation with tinkercad, add 2-3 sensors led buzzers and make a common code and circuit. Multiple detections and alarms should be given.

**Solution:**

```
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);

}

}
```

