Assignment – 1

Home Automation

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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);

   }

}
```