

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);
}
}
```

