```
1  void setup()
2  {
3    pinMode(8, INPUT);
4    pinMode(A5, INPUT);
5    pinMode(A4, INPUT);
6    pinMode(5, OUTPUT);
7    pinMode(6, OUTPUT);
8    Serial.begin(9600);
9  }
10 void loop()
11 {
12   float x,y,z,temp;
13   x= digitalRead(8);
14   y= analogRead(A5);
15   z= analogRead(A4);
16   Serial.println(x);
17   Serial.println(y);
18   Serial.println(z);
19   temp = (double)z / 1024;
20   temp = temp * 5;
21   temp = temp - 0.5;
22   temp = temp * 100;
23   if ( (x>0) )
24   {
25     if ((y<550)&&(temp>30))
26     {
27       digitalWrite(5, HIGH);
28       digitalWrite(6, HIGH);
29     }
30     else if((y<550)&&(temp<30))
31     {
32       digitalWrite(5, HIGH);
33       digitalWrite(6, LOW);
34     }
35     else if((y>550)&&(temp>30))
36     {
37       digitalWrite(5, LOW);
38       digitalWrite(6, HIGH);
39     }
40     else if((y>550)&&(temp<30))
```

```
41      {
42          digitalWrite(5, LOW);
43          digitalWrite(6, LOW);
44      }
45    }
46    else
47    {
48      digitalWrite(5, LOW);
49      digitalWrite(6, LOW);
50    }
51 }
```

https://www.tinkercad.com/things/hPTMDCOCNyj