

## SMART HOME

Void setup()

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

Void loop()

```
{  
  Float x,y,z,temp;  
  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);  
}  
}
```