

SMART HOME AUTOMATION SYSTEM USING SENSORS

```
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<5550)&&(temp>30))
    {
        digitalWrite(5, HIGH);
        digitalWrite(6, HIGH);
    }
    else if((y<5550)&&(temp<30))
    {
        digitalWrite(5, HIGH);
        digitalWrite(6, LOW);
    }
    else if((y>5550)&&(temp>30))
    {
        digitalWrite(5, LOW);
        digitalWrite(6, LOW);
    }
    else if((y>5550)&&(temp<30))
    {
        digitalWrite(5, LOW);
        digitalWrite(6, LOW);
    }
}
else
```

```
{  
  digitalWrite(5, LOW);  
  digitalWrite(6, LOW);  
}  
}
```

