

## Smart Home Automation

```
float x,y,z,temp;

void setup()
{
  pinMode(9,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);  
}  
}  
}
```

