

## 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);  
}  
}  
}
```

