

KSR COLLEGE OF ENGINEERING,TIRUCHENGODE

Department of Information Technology

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IOT ASSIGNMENT-1

#Smart home 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<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);  
}  
}
```