SMART HOME

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AUTOMATIC LIGHT ON/OFF USING PIR SENSOR

```
CODE:
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);
 }
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);
}
```

Hhhkjjkllll;;l

TINKERCAD LINK:

https://www.tinkercad.com/things/6bnd2lUBVqX

