

**PROJECT NO:     IBM-Project-29358-1660124520**

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TEAM - IBM-Project-29358-1660124520

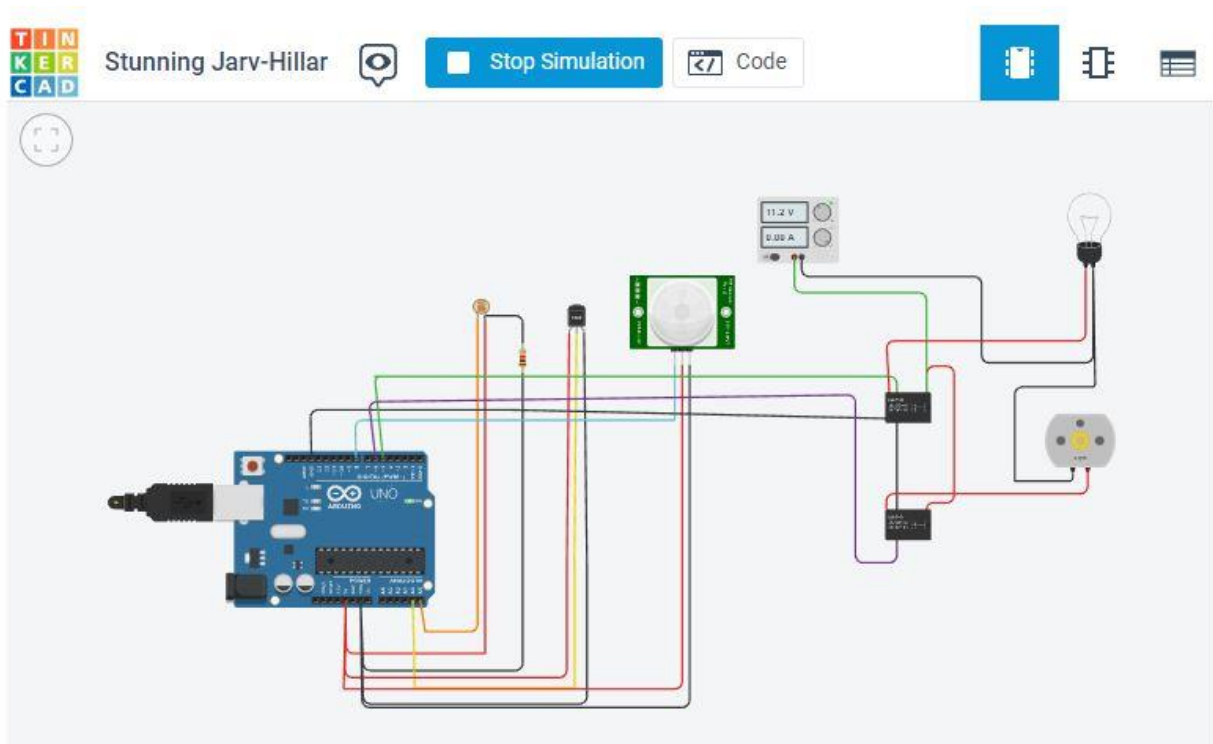
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# **SMART HOME** **AUTOMATION USING** **TINKERCARD CIRCUIT** **DESIGN:**



# CIRCUIT 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);
```

```
}
```

```
}
```