

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

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



```
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);
```

```
}
```

```
}
```