

IBM ASSIGNMENT- 1

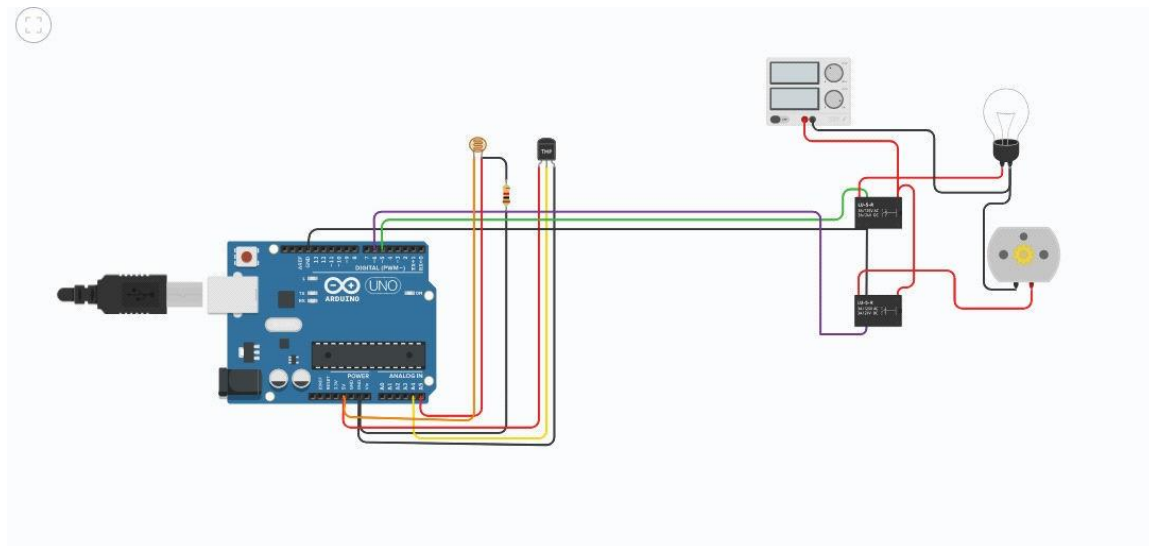
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make a smart home with sensors using arduino uno

CIRCUIT LAYOUT:



CODE:

```
float y,z,temp;
```

```
void setup()
```

```

{
    pinMode(5, OUTPUT);
    pinMode(6, OUTPUT);
    pinMode(A5, INPUT);
    pinMode(A4, INPUT);
    Serial.begin(9600);
}

void loop()
{
    y= analogRead(A5);
    z= analogRead(A4);
    Serial.prfloat y,z,temp;
}

void setup()
{
    pinMode(5, OUTPUT);
    pinMode(6, OUTPUT);
    pinMode(A5, INPUT);
    pinMode(A4, INPUT);
    Serial.begin(9600);
}

void loop()
{
    y= analogRead(A5);
    z= analogRead(A4);
    Serial.println(y);
    Serial.println(z);
    temp = (double)z / 1024;
    temp = temp * 5;
    temp = temp - 0.5;
}

```

```
temp = temp * 100;
```

```
{  
  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);  
  }  
}
```

```
intln(y);
```

```
Serial.println(z);
```

```
temp = (double)z / 1024;
```

```
temp = temp * 5;
```

```
temp = temp - 0.5;
temp = temp * 100;

{
    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);
    }
}
}
```

OUTPUT:

