

# IBM ASSIGNMENT- 1

TEAM ID :

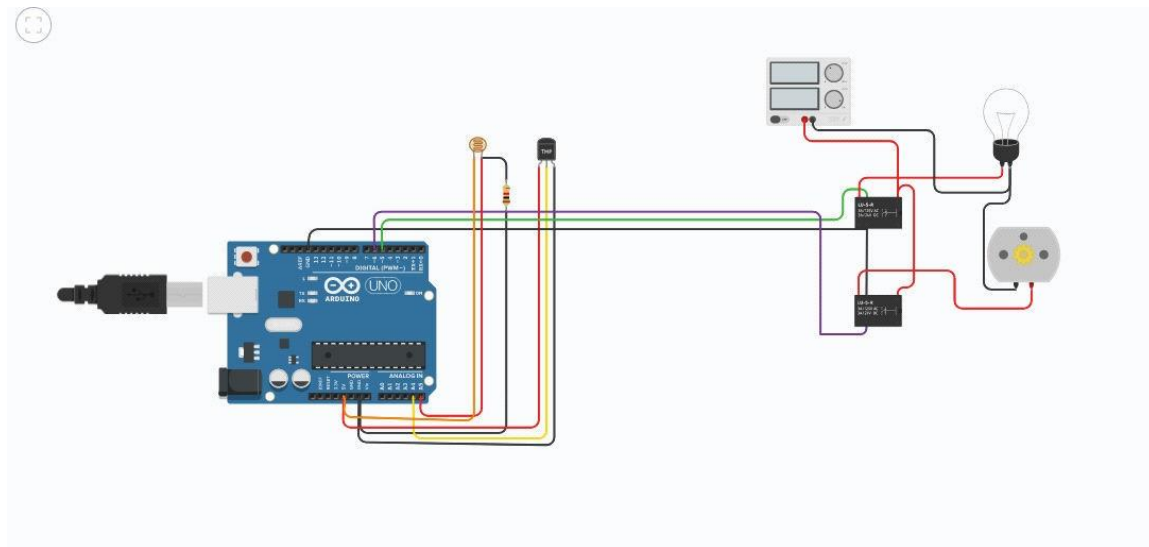
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make a smart home with sensors using arduino uno

## 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:**

