Internet Of Things

Lab - 10

Aadhitya Swarnesh
[redacted]

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Aim :

To maintain a High Brightness detector using Tinker-CAD and Concepts of IoT.

Software :

Tinker-CAD Software.

Methodology :

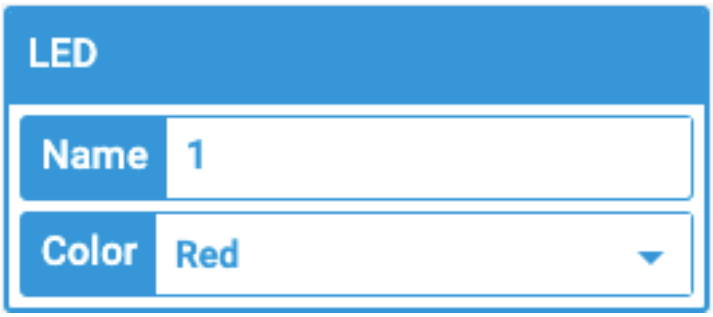
Instructions given by our a faculty [redacted]

Simulation And Output :

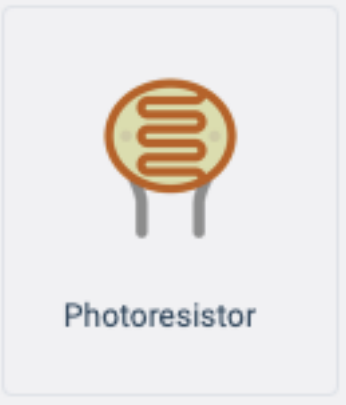
1) Components Used

(1.1) Arduino Uno

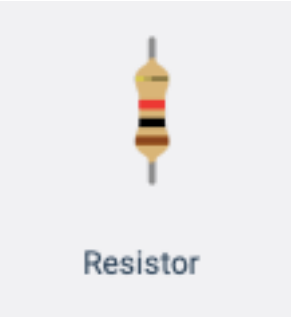
(1.2) LED Light

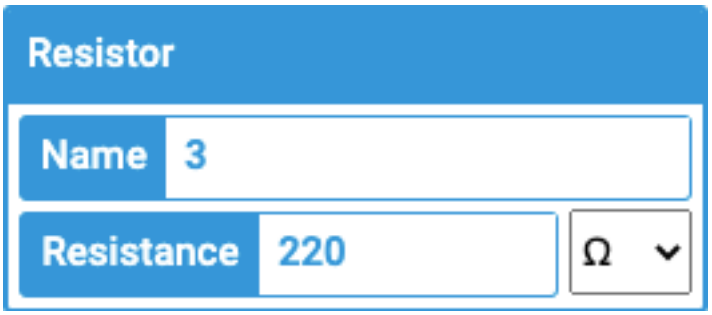


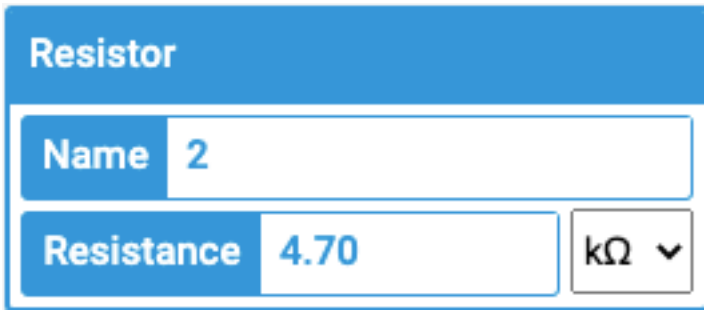
(1.3) Photo Resistor



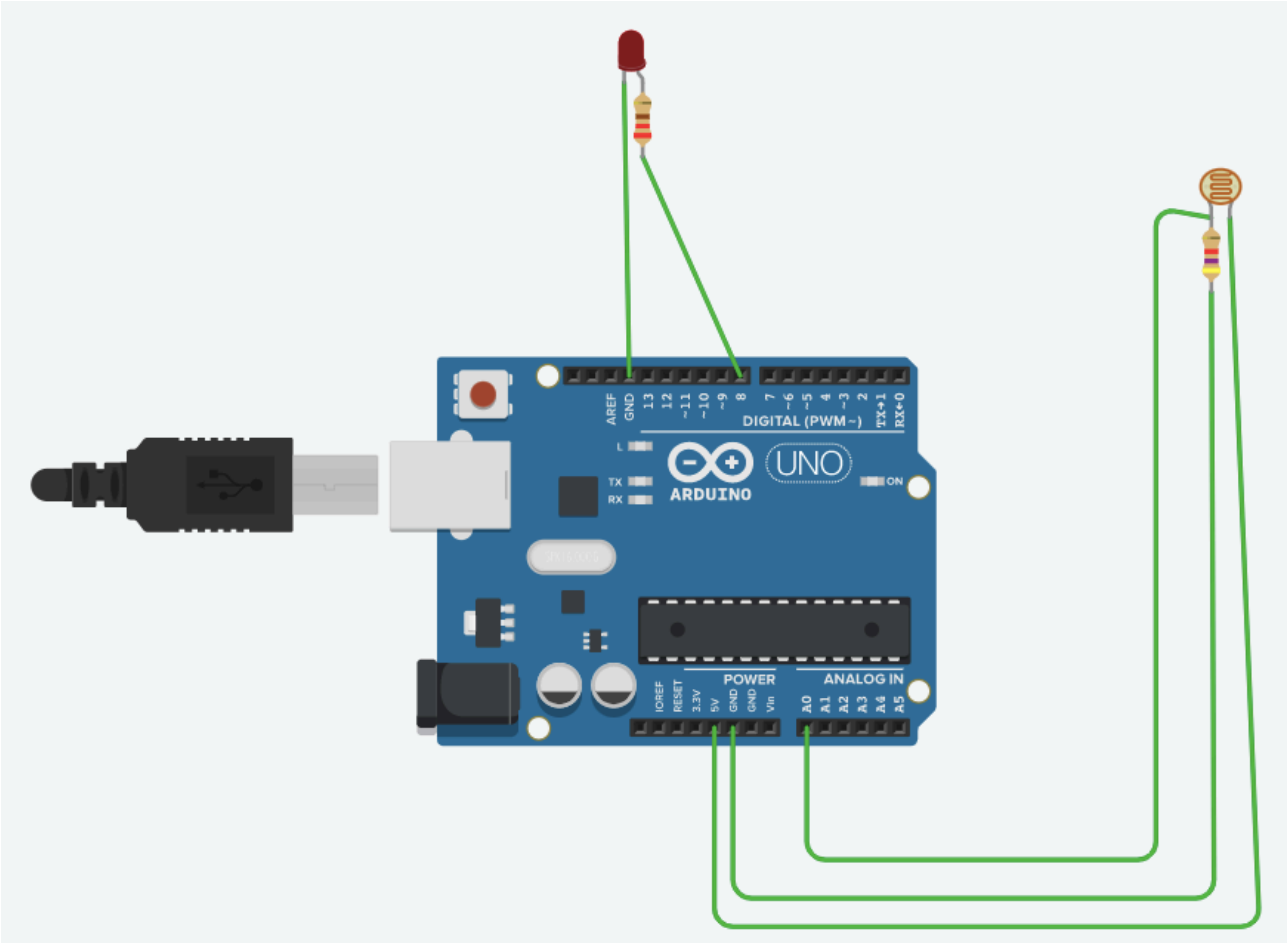
(1.4) Resistors







2) Complete Circuit Diagram



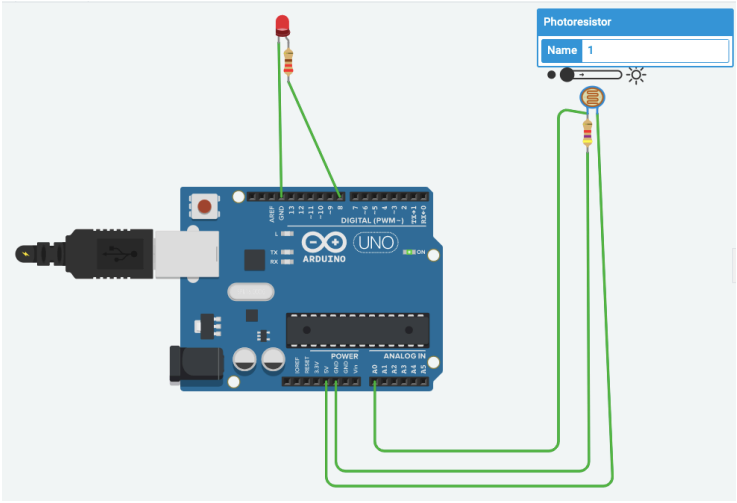
3) Arduino Code

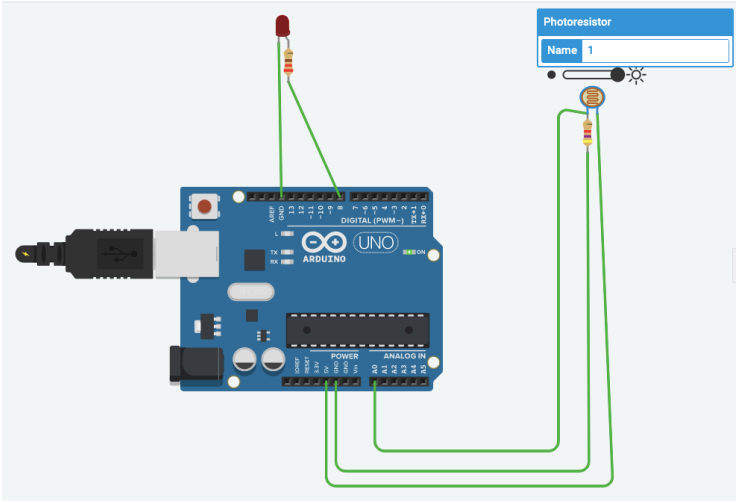
```
void setup()
{
 pinMode(8, OUTPUT);
 pinMode(A0, INPUT);
}

void loop()
{
 int a=analogRead(A0);
 Serial.println(a);
 delay(200);
```

```
 if (a<800)
   digitalWrite(8, HIGH);
 else
   digitalWrite(8, LOW);
}
```

4) Output





5) Result :

Thus, with the help of Tinker CAD, we have designed a circuit for recognising changes in brightness levels and have thereby utilised concepts of IoT and have put it to practical use.