Project 23:

Introduction

Ldr is used to detect light and its send a data to controller to control Led in this project

COMPONENTS: -

1. **WEMOS**
2. **LDR Sensor**
3. **RESISTER**

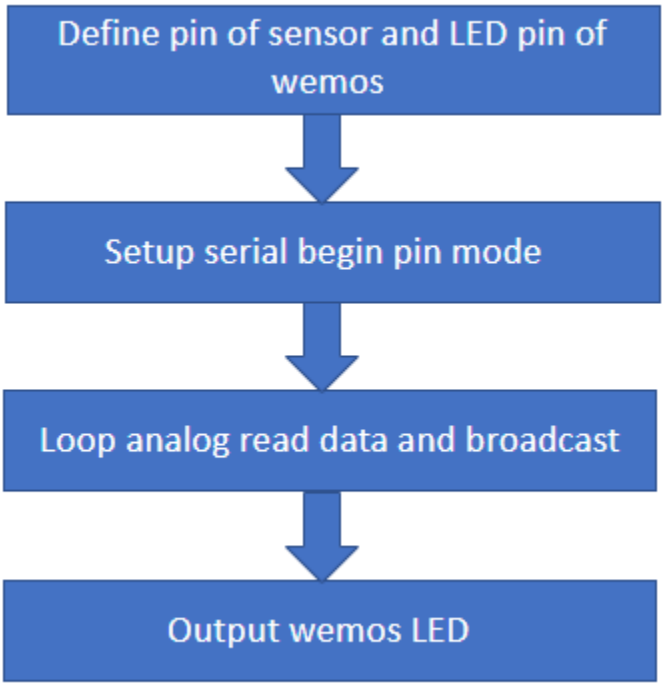
APPLICATION: -

These Light Detectors or Sensors can detect different types of light like visible light, ultraviolet light, infrared light etc. In this project, we have designed a simple Light Detector using LDR. When the light falls on the LDR, the light stays off and when the light stops falling on LDR, the LED glows.

OBJECTIVE: -

These resistors are frequently used as light sensors. These resistors are mainly used when there is a need to sense the absence and presence of the light such as burglar alarm circuits, alarm clock, light intensity meters, etc. LDR resistors mainly involves in various electrical and electronic projects.

FLOW CHART: -



PROGRAMMING: -

https://www.youtube.com/c/voidloopRobotechAutomation

```
#define LDR A0
#define led D5



void setup() {
  Serial.begin(115200);
  pinMode(led, OUTPUT);
  delay(100);

}

void loop() {
  int light = analogRead(A0);
  if(light <150)
  {
```

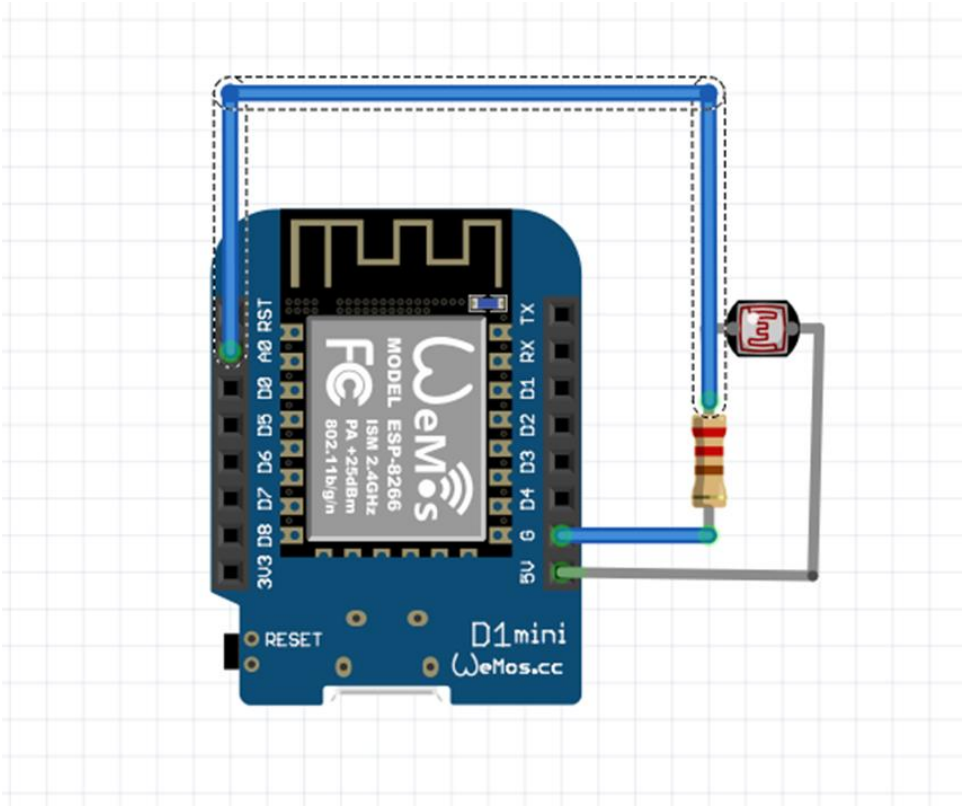
```
    digitalWrite(led, HIGH);
  }
  else
  {
    digitalWrite(led, LOW);
  }
  Serial.println(light);
  delay(150);

}
```

HARDWARE CONNECTION :-

1. Connect pin wemos A0 to LDR A0
2. Connect pin GND to GND
3. Connect VCC to VCC

CIRCUIT DIAGRAM: -


RST
A0
D0
D5
D6
D7
D8
3V3
RX
TX
D1
D2
D3
D4
G
5V
MODEL ESP-8266
ISM 2.4GHz
PA +25dBm
802.11b/g/n
RESET
D1mini
WeMos.cc