Experiment No. : 10

Statement : Blink an LED in accordance with the brightness. Blinking frequency increases with increase in brightness.

Date of Exp :

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const int ledPin = 3;

const int ldrPin = A0;

void setup() {

pinMode(ledPin, OUTPUT);

Serial.begin(9600);

}

void loop() {

int lightLevel = analogRead(ldrPin);

int blinkInterval = map(lightLevel, 0, 1023, 100, 1000);

digitalWrite(ledPin, HIGH);

delay(blinkInterval);

digitalWrite(ledPin, LOW);

delay(blinkInterval);

Serial.print("Light Level: ");

Serial.print(lightLevel);

Serial.print("\tBlinking Frequency: ");

Serial.print(1000 / blinkInterval);

Serial.println(" Hz");

}



