/\*

Experiment No. : 10

Statement : Blink an LED in accordance with the

brightness. Blinking frequency increases

with increase in brightness.

Date of Exp. : xx/xx/xxxx

Author : Jagruti Bhoyar (A-08)

\*/

/\* Code \*/

const int ledPin = 2;

const int ldrPin = A0;

void setup() {

pinMode(ledPin, OUTPUT);

Serial.begin(9600);

}

void loop() {

int lightLevel = analogRead(ldrPin);

// Read the analog value from LDR

// Map the light level

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

digitalWrite(ledPin, HIGH); // LED on

delay(delayTime);

digitalWrite(ledPin, LOW); // LED off

delay(delayTime);

// Print the light level

Serial.print("Light Level: ");

Serial.print(lightLevel);

Serial.print(", Delay Time: ");

Serial.println(delayTime);

}



