```
Experiment No.: 10
Statement
Blink an LED in accordance with the brightness. Blinking
frequency increases with increase in brightness.
Date of Exp. : xx/xx/xxx
Author : Vidhee Agrawal (A-29)
const int photoresistorPin = A0; // Analog pin
                         // Digital pin for the LED
const int ledPin = 13;
void setup() {
 pinMode(photoresistorPin, INPUT);
 pinMode(ledPin, OUTPUT);
}
void loop() {
  // Read the analog value from the photoresistor
  int sensorValue = analogRead(photoresistorPin);
  // Map the sensor value to the blinking frequency range
  int blinkingFrequency = map(sensorValue, 0, 1023, 50, 1000);
  // Blink the LED with the calculated frequency
  digitalWrite(ledPin, HIGH);
  delay(blinkingFrequency / 2); // Half of the period
  digitalWrite(ledPin, LOW);
  delay(blinkingFrequency / 2); // Half of the period
}
```



