

```
/*
```

```
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         :    Aabha Nimje (A-33)
```

```
*/
```

```
void setup()
```

```
{  
    pinMode(ledPin, OUTPUT);  
    Serial.begin(9600);  
}
```

```
void loop()
```

```
{  
    int lightLevel = analogRead(ldrPin); // Map the light level to  
a blinking frequency  
    int blinkInterval = map(lightLevel, 0, 1023, 100, 1000);  
    digitalWrite(ledPin,HIGH); // Turn on the LED  
    delay(blinkInterval);  
  
    digitalWrite(ledPin,LOW); // Turn off the LED  
    delay(blinkInterval); // Print the light level and blinking  
frequency to the serial monitor  
    Serial.print("Light Level: "); Serial.print(lightLevel);  
    Serial.print("\tBlinking Frequency: ");  
    Serial.print(1000 / blinkInterval); // Frequency in Hz  
    Serial.println(" Hz");  
}
```



