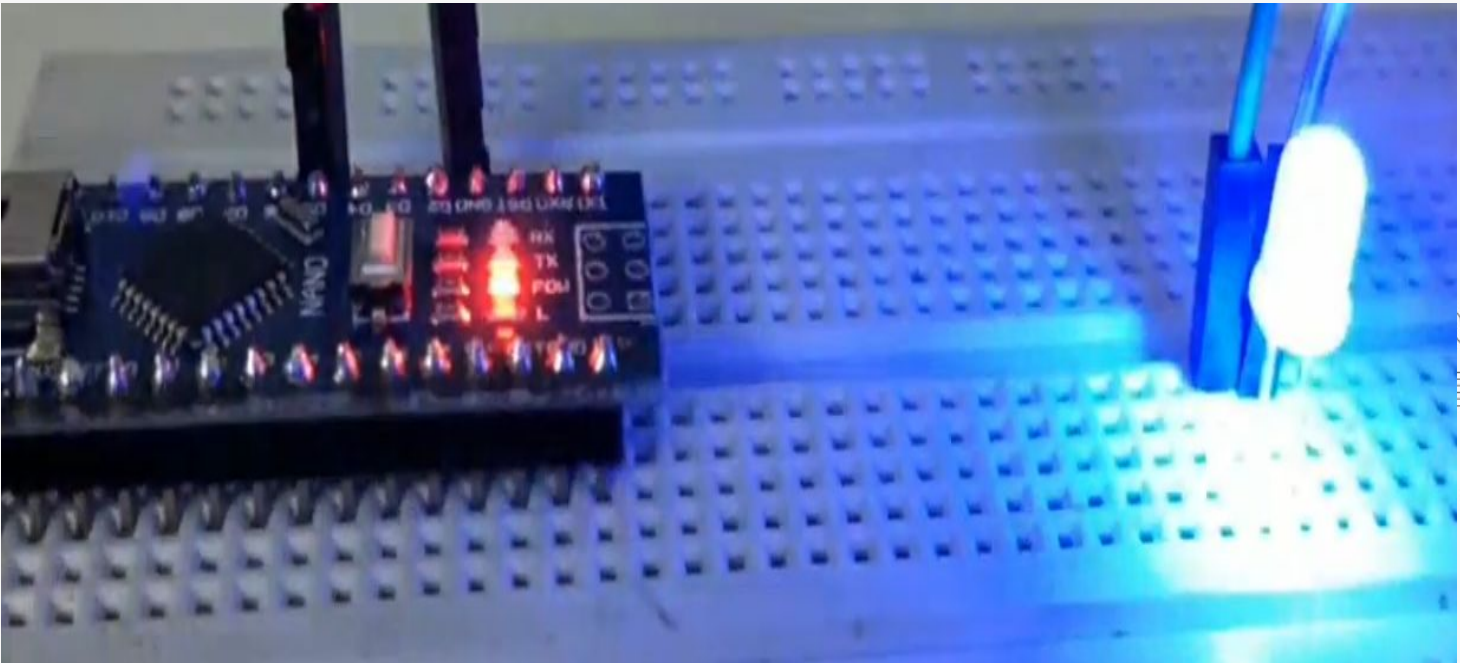
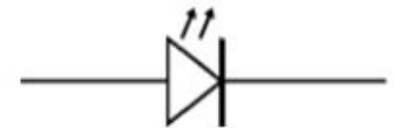
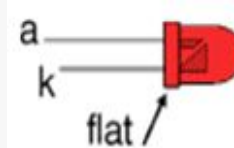
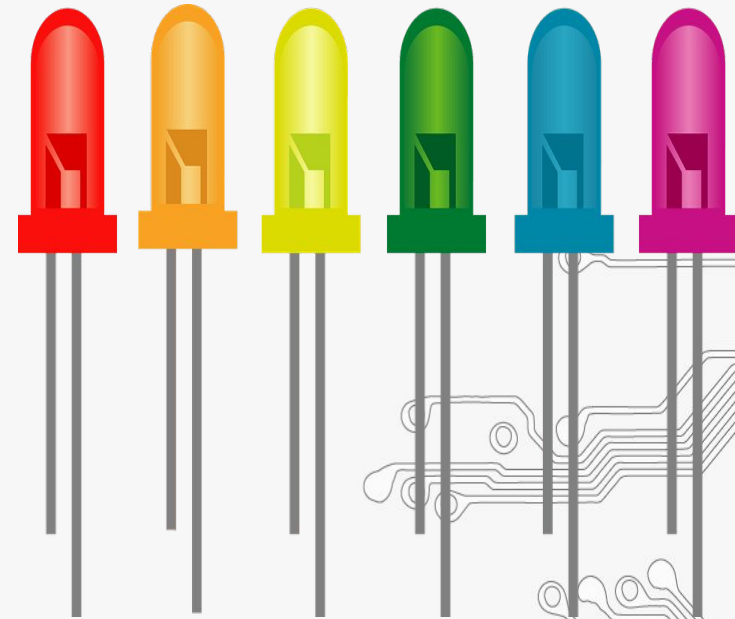


Interfacing of LED



LED (Light Emitting Diode)

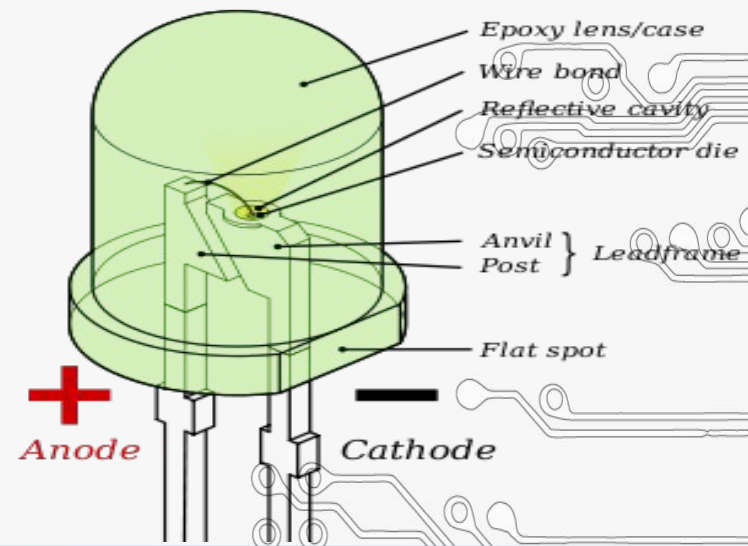
- An **LED** is an electronic device that emits **light** when an electrical current is passed through it.
- LEDs are commonly used for **indicator lights** (such as power on/off lights) on electronic devices.
- It is a very important electronic device because it is used in a lot of electrical and electronic devices now a days.



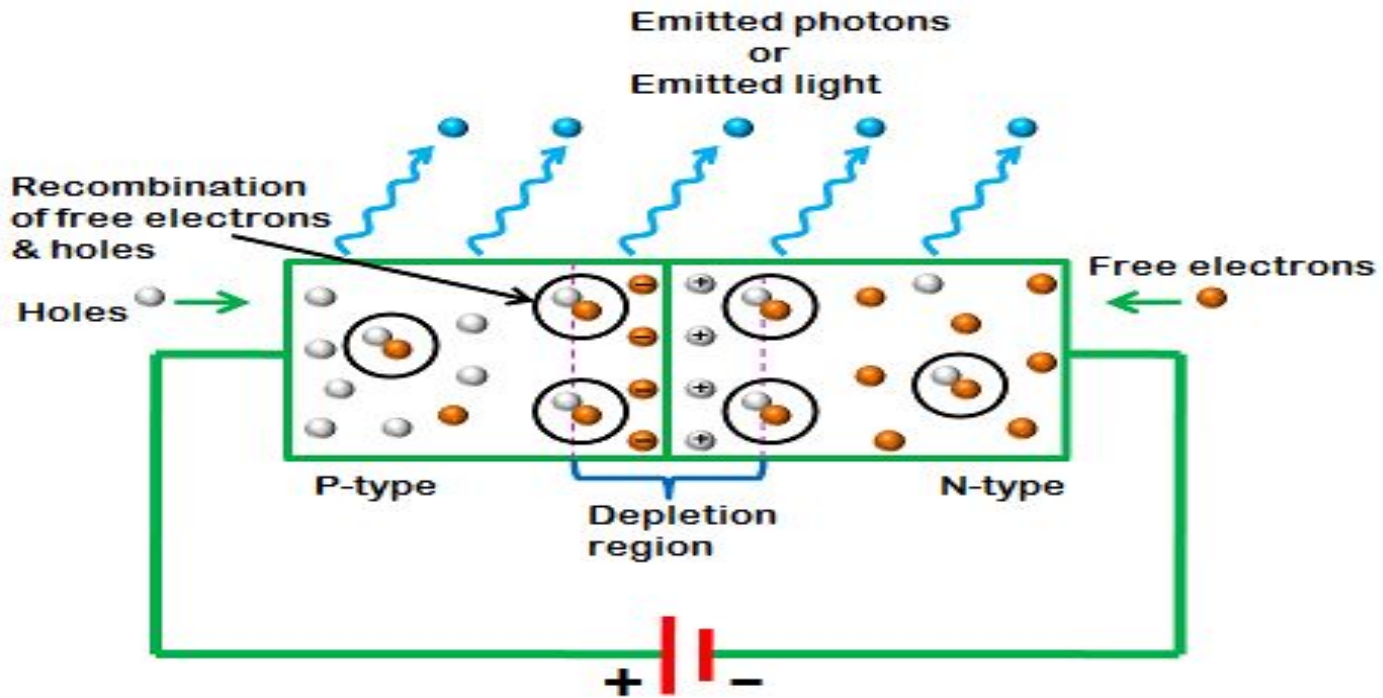
symbol:

Working of LED

A light-emitting diode is a two-lead semiconductor light source. It is a p–n junction diode that emits light when activated. When a suitable voltage is applied to the leads, electrons are able to recombine with electron holes within the device, releasing energy in the form of photons.



Working Diagram

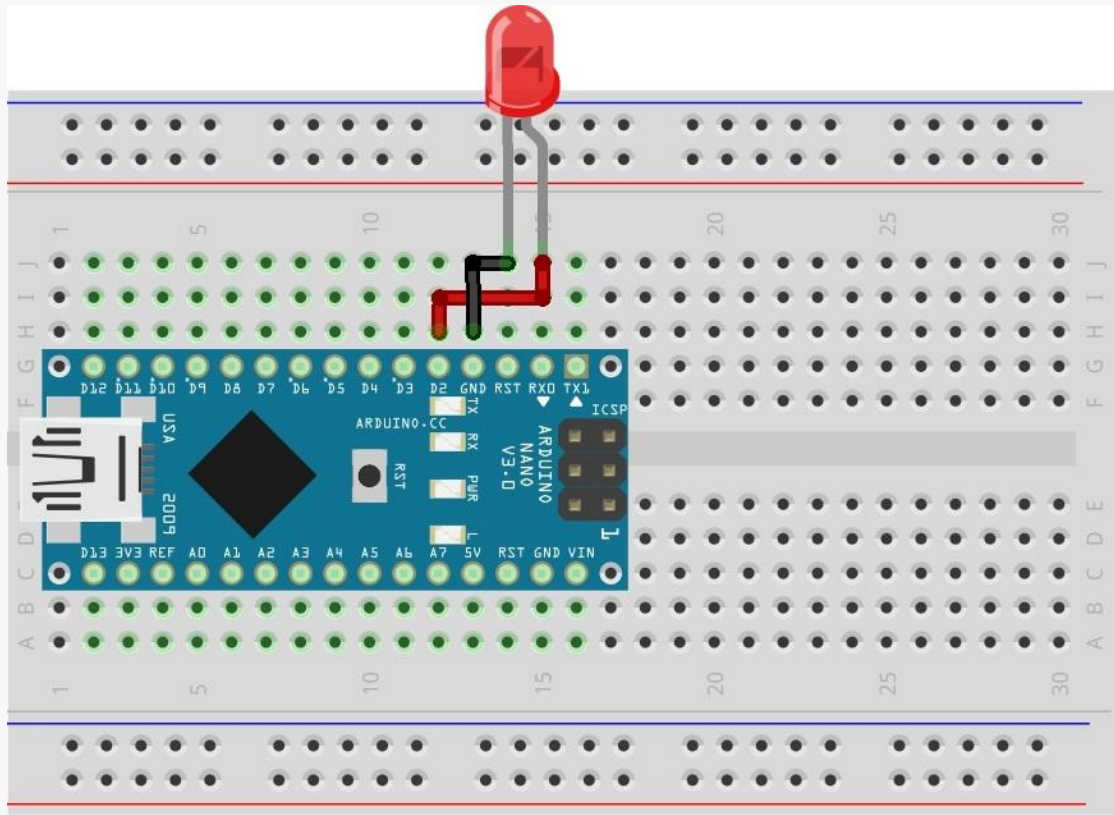


Light Emitting Diode (LED)

Component Required

- Arduino Nano
- LED
- Breadboard
- Jumper wires

Connection Diagram



Connections

1. Connect LED's positive terminal with any digital pin (D2 pin have chosen in above diagram) of Arduino Nano.
2. Connect LED's ground terminal with GND pin of Arduino Nano.

Code

Interfacing_of_LED | Arduino 1.8.19

File Edit Sketch Tools Help

Interfacing_of_LED

```
void setup()
{
  // put your setup code here, to run once:
  Serial.begin(9600);
  pinMode(5,OUTPUT);
}

void loop() {
  // put your main code here, to run repeatedly:
  digitalWrite(5,HIGH);
  delay(200);
  Serial.println("Led is high");
  digitalWrite(5,LOW);
  delay(200);
  Serial.println("Led is low");
}
```


Project Link: <https://youtu.be/iA6mtiJf46o>