Hello, sir/ma'am,

I am Anirudh Vempati, grade 8 of Unicent school.

I'd like to provide the following article for the NIE paper: -

**Title: "Understanding a Photoresistor"**

Article:

A photoresistor is a type of resistor that reacts to light, also known as an LDR (Light Dependent Resistor). The resistance of a photoresistor decreases with an increase in light, which means it allows more current to flow.

Let's make a circuit with a photoresistor. First, we need to create a simple circuit with an LED (Light Emitting Diode), a 1.5V battery, a few wires, and a switch. To do this, follow this sequence: connect the battery's positive terminal to a wire, then connect the wire to the switch, and another wire to the LED's long pin. Next, connect the LED's short pin to the battery's negative terminal.

Now turn on the switch. Is the light glowing? If the LED glows, then the circuit is correct. Now, replace the switch with an LDR. Make sure the circuit is correct and that there are no polarities to an LDR. With everything in place, turn on the lights in your room. Is the LED glowing? It should be glowing. Next, cover all the light sources in your room. Is the LED still glowing? No, this time the LED will not glow.

by Anirudh Vempati

