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Program: 6 - ON/OFF LED using LDR

Aim: Demonstrate to show ON/OFF of a LED using LDR - Night Light Simulator.

Hardware Requirements : Arduino Board, LED, breadboard, resistor, connecting wire, Photo resistor

Code:

```
const int ledPin = 8;
const int ldrPin = A0;

void setup()
{
  Serial.begin(9600);
  pinMode(ledPin, OUTPUT);
  pinMode(ldrPin, INPUT);
}

void loop()
{
  int ldrStatus = analogRead(ldrPin);
  Serial.println(ldrStatus);
  if (ldrStatus <= 10)
  {
    digitalWrite(ledPin, HIGH);
    Serial.println("LDR is dark, LED is ON.");
  }
  else
  {
    digitalWrite(ledPin, LOW);
    Serial.println(" - - - - ");
  }
}
```

}

