

PROGRAM: 6PROGRAM TITLE: Night - light simulationAim: Demonstrate to show ON/OFF of a LED using LDR - Night light simulation.Hardware Required :

- \* Arduino Board
- \* ~~Potentiometer~~ Photo Resistor
- \* LED

Code:

```
const int ledPin = 13;
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(ldPin, LOW);  
    Serial.println("LDR is BRIGHT, LED is OFF");  
    Serial.println(" - - - - -");  
}  
}
```

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## CIRCUIT DIAGRAM

