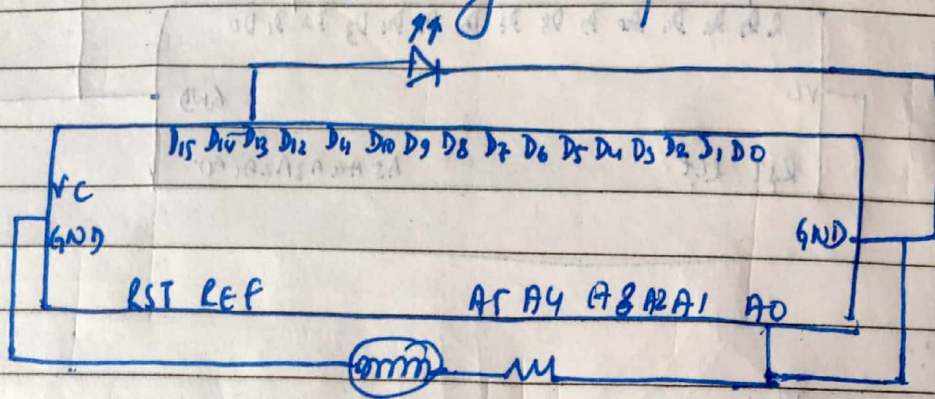


Program :- 6 ON, OFF LED USING LDR.

Aim :- Demonstrate to show ON/OFF of a LED using LDR -
Nightlight Simulator

Hardware Requirements :- Arduino board, LED, breadboard, resistor,
connecting wire, photoreistor.



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("LDR is light, LED is OFF");
  }
}
```