

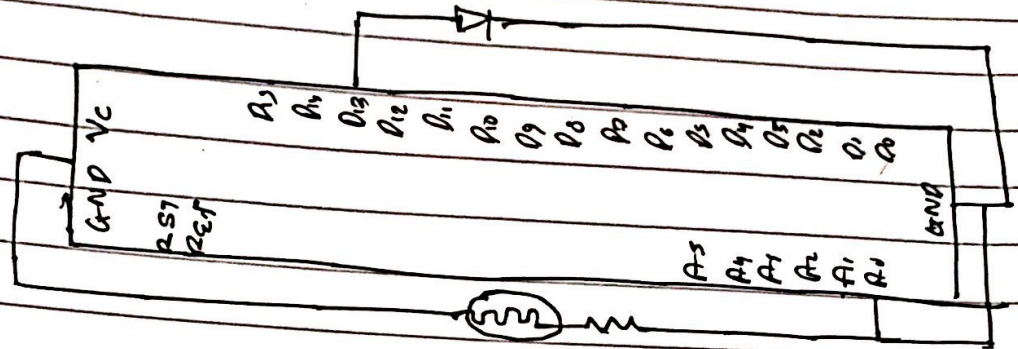
Program NO: 6 - ON/OFF LED USING LDR
Aim: Demonstrate to show ON/OFF of LED
using LDR - NIGHT LIGHT SIMULATOR

classmate
Date _____
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HARDWARE REQUIREMENT: ARDUINO BOARD LED, breadboard,
resistor, connecting wire, photoresistor

Circuit diagram:



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(" - - - ");  
  }  
}
```