

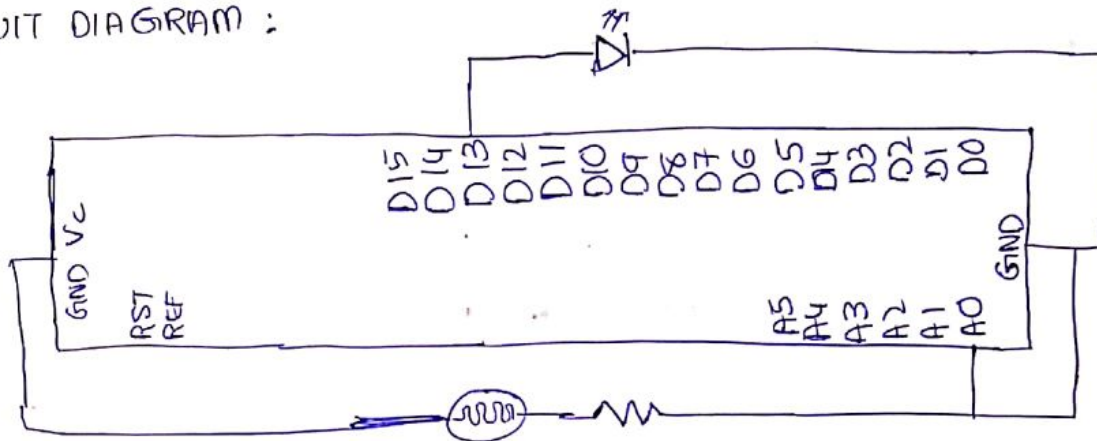
PROGRAM NO : 6 — ON/OFF LED USING LDR

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IBM18CS142

AIM: Demonstrate to show ON/OFF of a LED  
using LDR — NIGHT LIGHT SIMULATOR

HARDWARE REQUIREMENTS : 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 (" - - - - "); }
}
```

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