Progressive Education Society's

Modern College of Engineering, Pune

**MCA Department A.Y.2024-25**

**(410907) Internet of Things**

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Class: FY-MCA Shift / Div : A Roll Number : 52119

Name: Harsh Ghodke Assignment No: 4 Date of Implementation: 30-09-2024

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**Q.1)** **Understanding the connectivity of Arduino board circuit with IR sensor. Write an application to detect obstacle and notify user using LEDs.**

**Code:**

const int IR\_sensor = 2;

const int greenLED = 7;

const int redLED = 8;

void setup() {

pinMode(IR\_sensor, INPUT);

pinMode(greenLED, OUTPUT);

pinMode(redLED, OUTPUT);

digitalWrite(greenLED, HIGH);

digitalWrite(redLED, LOW);

Serial.begin(9600);

}

void loop() {

int sensorValue = digitalRead(IR\_sensor);

if (sensorValue == LOW) {

digitalWrite(greenLED, LOW);

digitalWrite(redLED, HIGH);

Serial.println("Obstacle detected!");

} else {

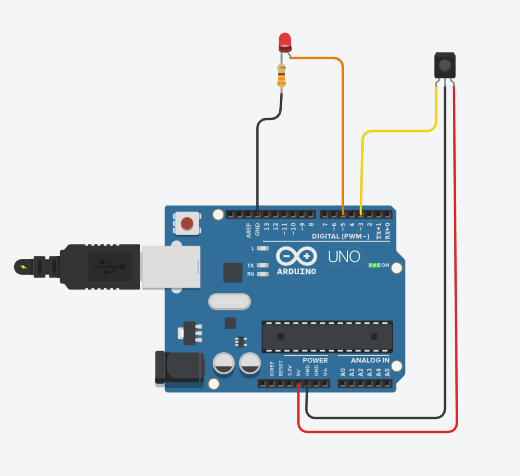
digitalWrite(greenLED, HIGH);

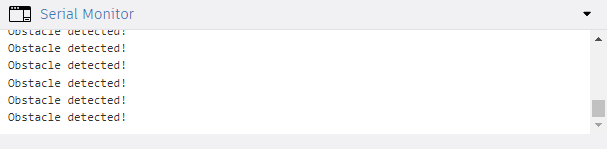
digitalWrite(redLED, LOW);

Serial.println("No obstacle detected."); }

delay(100); }

**Output:**

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