## **IOT LAB - 5th Sem**

Name: Varad Vithal KJ, USN: 11BM18CS122

**Program Title: Passive Infrared Sensor** 

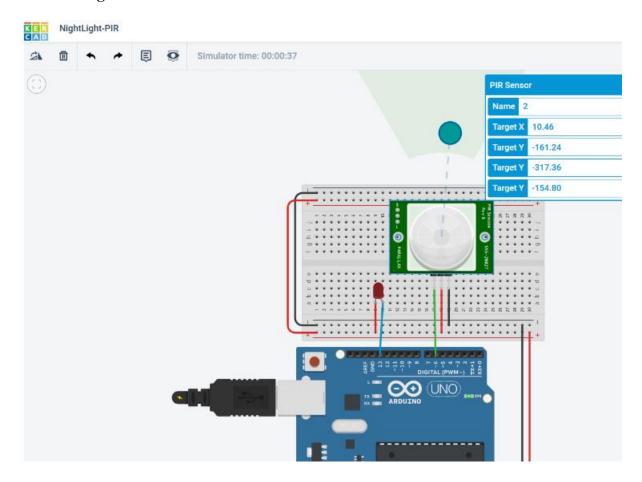
Aim:

To turn on a LED when motion is detected using an Arduino Uno board.

## **Hardware Required**

- · Arduino Uno Board
- LED
- PIR
- 330 Ohm Resistor

## Circuit Diagram -



Written Code:

Night Light-PIR intled=13; int sensor=6; int state = LOW; int val=0; Void Setup () 1 pinMode(led, OUTPUT); pin Mode (Sensor, INPUT); Serial . begin (9600); Void 100p(){ Val = digital Read (Sensor); if (val== HIGH) { digital Write (led, HIGH); delay(10); if (State== LOW) (

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```
Sexial-paint In ( "Motion detected!");
 State = +194;
 else {
    digitalwrite (1ed, LOW);
    delay (10);
if (State == +194) 1
  Social. println ("Motion Stopped!");
    State = LOW;
```

## **Observation / Output:**

The LED is turned on when motion is detected.