# **IOT LAB - 5th Sem**

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Program No: 07

**Program Title: Passive Infrared Sensor** 

Aim:

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

## Hardware Required:

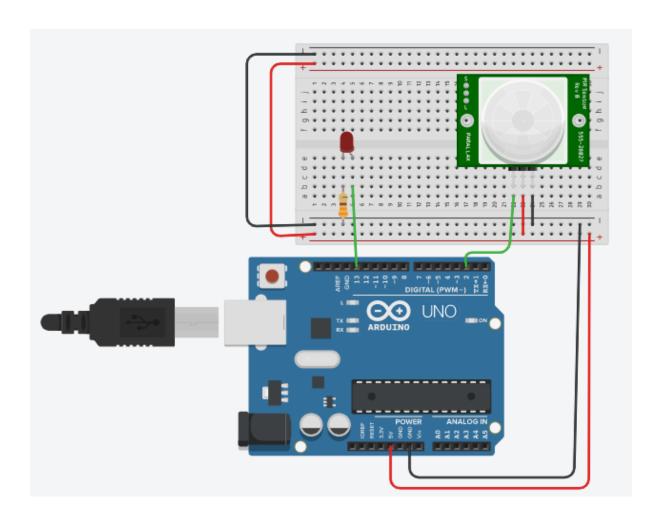
Arduino Uno Board

LED

PIR

• 330 Ohm Resistor

## **Circuit Diagram:**



#### Written Code:

```
TOT LAB-
                                 Sayed Ayman Bukh
                                  Mymans
  int led = 13;
  int senson = 2;
  int state = Low,
  int val = 0;
 void setup ()
  pinMode (led, OUTPUT);
     pin Mode ( sensor INPUT );
      Sexial begin (9600).
void loop ()
  val = digital Read (senson).
    if (val = = HIGH)
       digital White (led, HIGH).
       delay (10);
if (state = 20w)
        E Sexial paint lu (" Motion detected!").
       3 State = HIGH;
      digitalwrite (led, Low).
        delay (10);
        if ( State = = HIGH)
       E Serial Printle (" Motion Stopped !").
            State = Low.
```

#### **Observation / Output:**

The LED is turned on when motion is detected.