## IOT Lab - 5th Sem

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Program No: 06

**Program Title: PIR Sensor** 

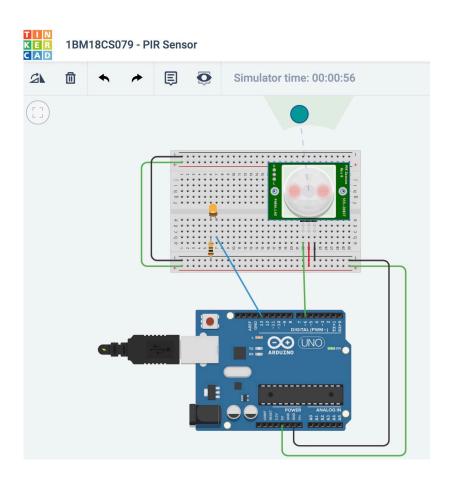
#### Aim:

To control the switching of an LED bulb upon motion using a PIR Sensor

## Hardware Required:

- Arduino Uno Board
- Led Bulb
- Resistors 100 ohm x2
- LDR Sensor
- Jump wires

## **Circuit Diagram:**



#### **Written Code:**

```
Rajoth. M.K
                                       1BM18 C5079
 06 - PIR Sepsor - IOTLOG
int led = 13;
                              (A) if (state == HigH) {
int sepsor = 6;
                                     Serial-printle (Motion Sopred)
int state: Low;
int val=0)
void setypes
                                    Statezlow
   pinnode (led, OUTPUT)
  PioMode (serson INPUT)
   Serial · ( Jeg in ( 96 00))
 void (00p () {
     Val = digital Read (sensor);
    j (val == (+194) f
        digital write (led, 4194)
       delay ( '0);
       if (state = = Low)
          Serial println ("Motion Setectal")
        3 State 2 H1 SH ?
         sigifal write(lod, low);
         dolay (10); - A
```

# **Observation / Output:**

The LED bulb was switched on when motion was detected in front of PIR Sensor but switched off when the object was moved away from the range.