# NAME: KSHITIJ GUPTA Enrolment Number: 21162101007 Sub: IoT

# Practical - 3[Batch-71]

Interface PIR Motion Sensor with Arduino and blink LED.

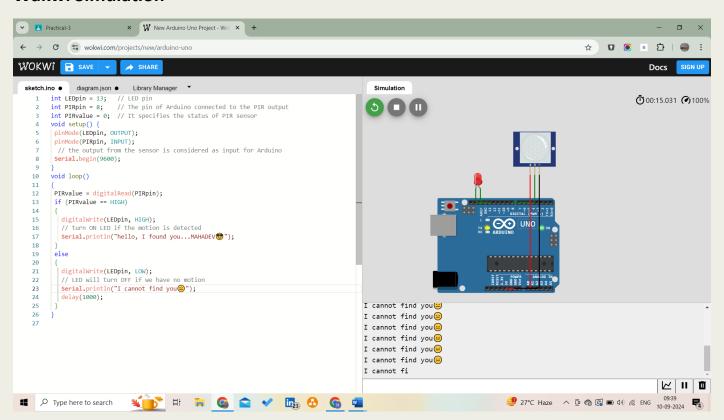
#### **Parts Needed**

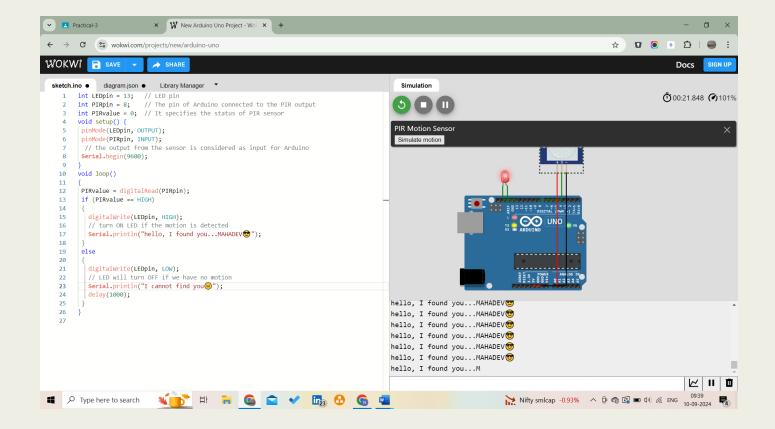
```
1. Arduino Uno
   2. USB A-to-B Cable
   3. LED 5mm
   4. PIR Motion Sensor
   5. Jump wires
Source Code:
int LEDpin = 13; // LED pin
int PIRpin = 8; // The pin of Arduino connected to the PIR output
int PIRvalue = 0; // It specifies the status of PIR sensor
void setup() {
pinMode(LEDpin, OUTPUT);
pinMode(PIRpin, INPUT);
// the output from the sensor is considered as input for Arduino
Serial.begin(9600);
}
void loop()
{
PIRvalue = digitalRead(PIRpin);
if (PIRvalue == HIGH)
{
 digitalWrite(LEDpin, HIGH);
```

```
// turn ON LED if the motion is detected

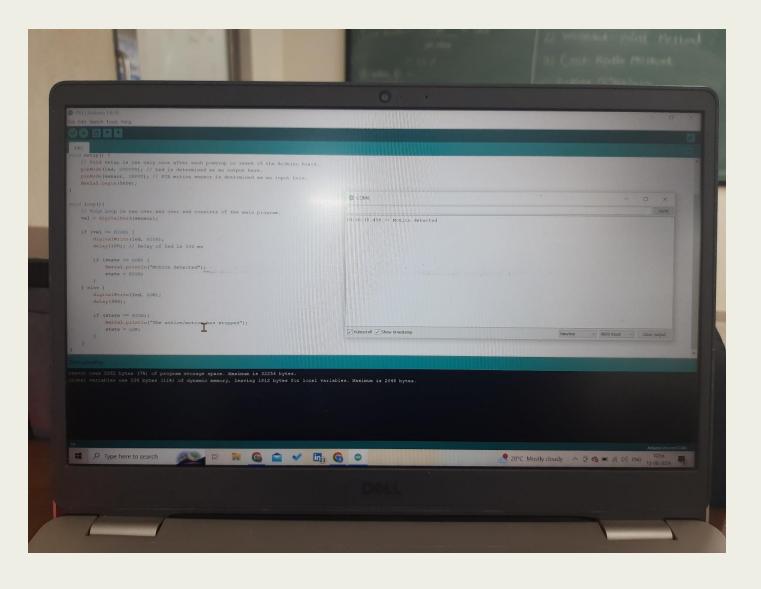
Serial.println("hello, I found you...MAHADEV®");
}
else
{
    digitalWrite(LEDpin, LOW);
    // LED will turn OFF if we have no motion
    Serial.println("I cannot find you=");
    delay(1000);
}
```

### **Wakwi Simulation**





## **Circuit Simulation:**





Google Drive Link: <a href="https://drive.google.com/file/d/1cN2b93g-m7zlw8KkA5xs88HAPSXiWw1A/view?usp=sharing">https://drive.google.com/file/d/1cN2b93g-m7zlw8KkA5xs88HAPSXiWw1A/view?usp=sharing</a>