No: Date:

Program: 7 -   PIR Sensor

Aim: Demonstrate the working of a PIR.

Hardware Requirements: Arduino Board, LED, resistor, bread board, connecting wires, PIR sensor

Code:

```
int led = 13;
int sensor = 6;
int state = LOW;
int val = 0;
void setup()
{ pinMode (led, OUTPUT);
  pinMode (sensor, INPUT);
  Serial.begin (9600);
}

void loop()
{ val = digitalRead (sensor);
  if (val == HIGH)
  { digitalWrite (led, HIGH);
    delay (10);
    if (state == LOW)
    { Serial.println ("Motion Detected !");
      state = HIGH; }
  }

  else { digitalWrite (led, low);
    delay(10);   if (state == HIGH)
    { serial.println ("Motion Stopped");
      state = LOW;   }
  }
}
```