

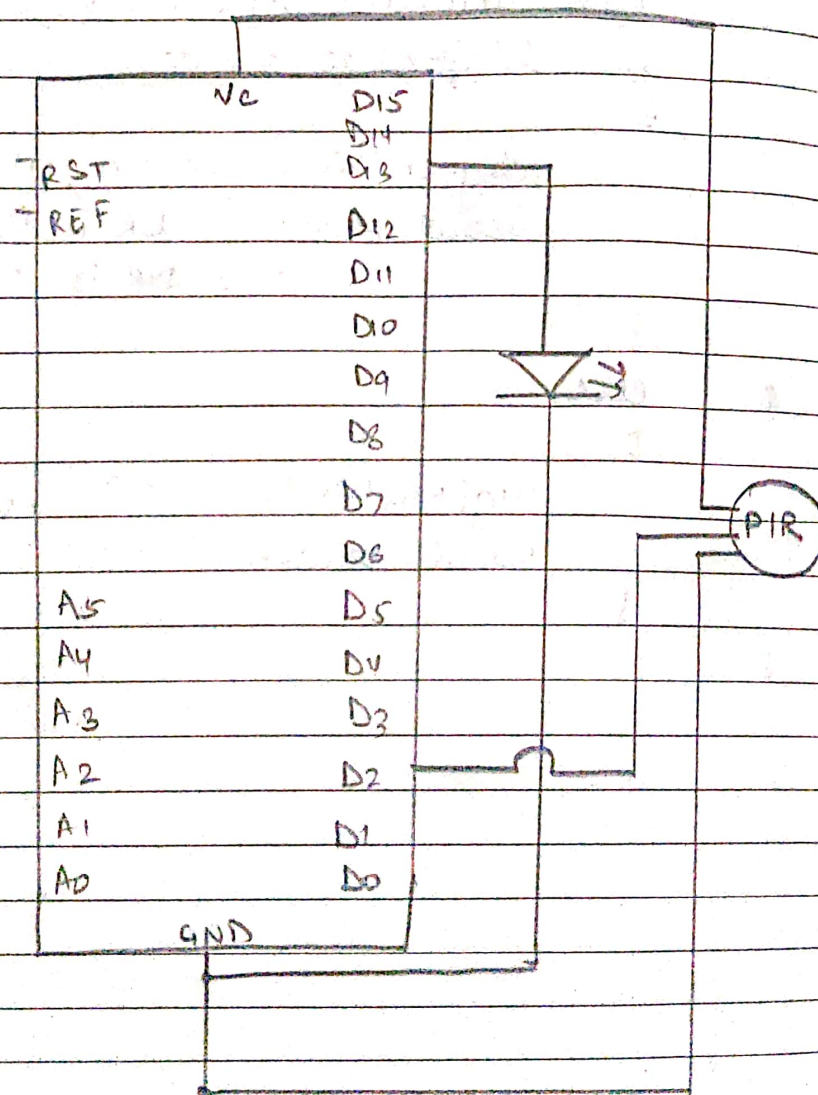
PROGRAM NO.: 7

PROGRAM TITLE: PIR sensor

AIM: Demonstrate to show the working of PIR sensor

HARDWARE REQUIREMENTS: Arduino Board, LED, Resistor, Bread Board, connecting wires, PIR sensor

CIRCUIT DIAGRAM:



CODE :

```
int led = 13;
int sensor = 6;
int state = LOW;
int val = 0;
void set-up()
{
    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;
        }
    }
}
```