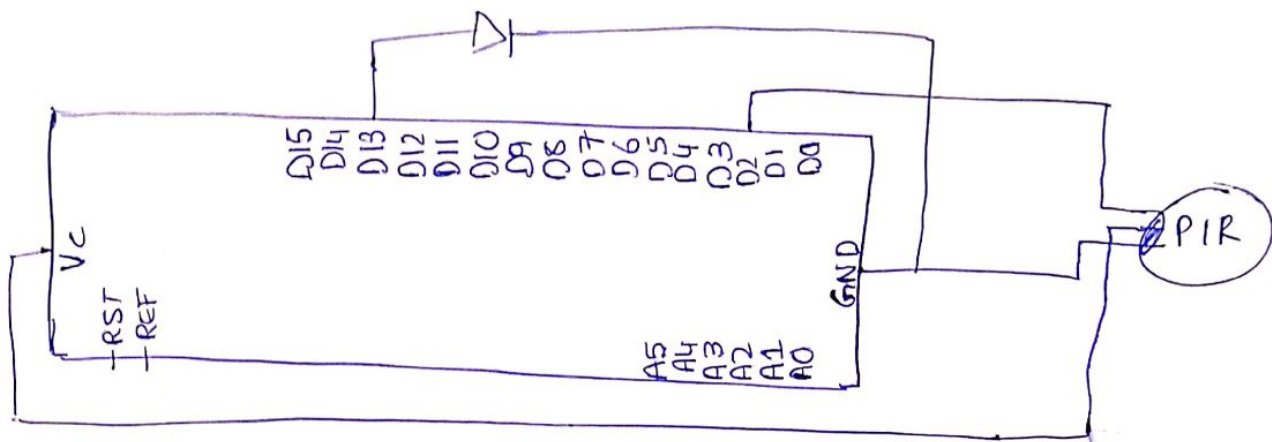


PROGRAM : 7 - PIR SENSOR

AIM : Demonstrate the working of a passive infrared ~~sensor~~
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 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 delay(10);
  }
}

```

```
if(state == HIGH)
```

```
{ Serial.println("Motion stopped");
```

```
state = LOW; }
```

```
}
```

```
}
```

```
}
```