

Program no 08

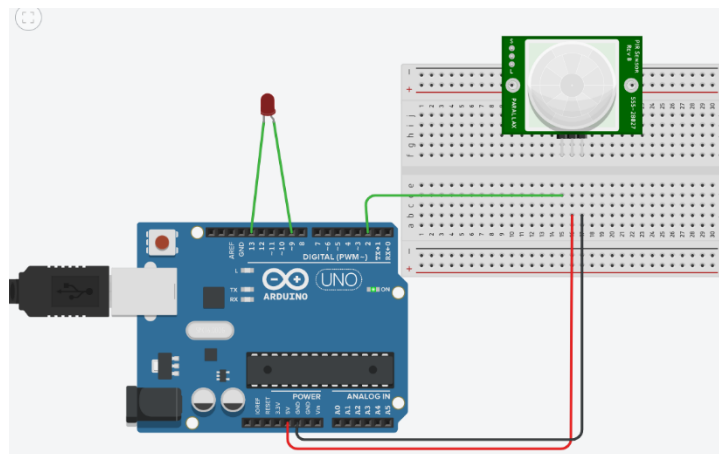
Program Title Motion detector sensor

Aim : To turn on LED upon detecting motion

Hardware Required

- Arduino Board
- Wires
- LED
- PIR sensor
- Bread board

Circuit Diagram



Code:

Program - 08
Motion Detector

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```
int led = 13;
int Sensor = 2;
int state = Low;
int Sensorstate = 0;
void setup()
{
    pinMode(led, OUTPUT);
    pinMode(Sensor, INPUT);
    Serial.begin(9600);
}

void loop()
{
    Sensorstate = digitalRead(Sensor);
    if (Sensorstate == HIGH)
    {
        digitalWrite(led, HIGH);
        delay(10);
        if (state == Low)
        {
            Serial.print("The sensor is  
activated!...");
            state = HIGH;
        }
    }
    else
    {
        digitalWrite(led, Low);
        delay(10);
    }
}
```

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```
if (State == HIGH)
{
  Serial.print("the sensor is  
activated");
  State = LOW;
}
}
```

Observation /Output

