ARDUINO CODE :

// Pin definitions

int sensorPin = 2; // PIR sensor output

int ledPin = 9; // LED output

void setup() {

pinMode(sensorPin, INPUT); // PIR sensor as input

pinMode(ledPin, OUTPUT); // LED as output

Serial.begin(9600);

}

void loop() {

int sensorValue=digitalRead(sensorPin);

Serial.println(sensorValue);

if(sensorValue==HIGH){ //IR sensor detects object

digitalWrite(ledPin,HIGH); //turn on LED

}

else{

digitalWrite(ledPin,LOW); //turn off LED

}

}

CIRCUIT DIAGRAM:

(BEFORE AND AFTER STIMULATION)



