

PROGRAM : 7PROGRAM TITLE : Night - light - human Detection.AIM : Demonstrate to show the working of PIR sensorHardware Required :

- * Arduino
- * PIR Sensor
- * LED

Code :

```
int ledPin = 13;
int inputPin = 2;
int PIRState = LOW;
int val = 0;
void setup()
{
  pinMode(ledPin, OUTPUT);
  pinMode(inputPin, INPUT);
  Serial.begin(9600);
}
void loop()
{
  val = digitalRead(inputPin);
  if (val == HIGH)
    digitalWrite(ledPin, HIGH);
  if (PIRState == LOW)
  {
```

```
Serial.println("Sensor Activated");
PIRState = HIGH;
}
else
{
  digitalWrite(LEDPin, LOW);
  if (PIRState == HIGH)
  {
    Serial.println("Motion ended!");
    PIRState = LOW;
  }
}
```

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CIRCUIT DIAGRAM

