

Week-8

Aim: Get the status of a bulb at a remote place (on the LAN) through web.

Components required:

Raspberry pi3 b+ model

Relay

Bulb

Connecting wires

Program:

```
import RPi.GPIO as GPIO
import time
in1 = 16
in2 = 18
GPIO.setmode(GPIO.BOARD)
GPIO.setup(in1, GPIO.OUT)
GPIO.setup(in2, GPIO.OUT)
GPIO.output(in1, False)
GPIO.output(in2, False)
try:
    while True:
        for x in range(5):
            GPIO.output(in1, True)
            time.sleep(0.1)
```

```
GPIO.output(in1, False)
GPIO.output(in2, True)
time.sleep(0.1)
GPIO.output(in2, False)
GPIO.output(in1, True)
GPIO.output(in2, True)
for x in range(4):
    GPIO.output(in1, True)
    time.sleep(0.05)
    GPIO.output(in1, False)
    time.sleep(0.05)
GPIO.output(in1, True)
for x in range(4):
    GPIO.output(in2, True)
    time.sleep(0.05)
    GPIO.output(in2, False)
    time.sleep(0.05)
GPIO.output(in2, True)
except KeyboardInterrupt:
    GPIO.cleanup()
```

Output:

Bulb ON

Bulb OFF

