

### ASSIGNMENT 3

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### **BLINKING OF LED AND TRAFFIC LIGHTS FOR RASPBERRY Pi**

#### **Code:**

```
import time
import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11, GPIO.OUT) while True: GPIO.output(11,True)
time.sleep(1)
GPIO.output(11,False)
time.sleep(1)

from gpiozero import Button, TrafficLights, Buzzer buzzer = Buzzer(15)
button = Button(21)

lights = TrafficLights(25, 8, 7) while True: button.wait_for_press()
light.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off() while True:
lights.on()
```

*buzzer.off()*

*button.wait\_for\_press()*

*lights.off()*

*buzzer.on()*

*button.wait\_for\_release() while True:*

*lights.blink()*

*buzzer.beep()*

*button.wait\_for\_press()*

*lights.off()*

*buzzer.off()*

*button.wait\_for\_release()*