



ASSIGNMENT 3

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Write Python Code for Blinking LED and Traffic Lights for Raspberry pi

LED Blinking Python Code

```
import RPi.GPIO as GPIO

import time ledPin = 22

def setup():

    GPIO.setmode(GPIO.BOARD)

    GPIO.setup(ledPin,

GPIO.OUT)

    GPIO.output(ledPin,
```

```
GPIO.LOW)
```

```
def loop():
```

```
    while True: print
```

```
        'LED on'
```

```
        GPIO.output(ledPin,
```

```
        GPIO.HIGH)
```

```

        time.sleep(1.0)

        print 'LED

        off'

        GPIO.output(ledPin,

        GPIO.LOW)time.sleep(1.0)

def endprogram():

    GPIO.output(ledPin,

    GPIO.LOW)GPIO.cleanup()

if __name__ == ' main

    ': setup() try: loop()

    except KeyboardInterrupt:

        endprogram()

```

Traffic Light Python Code from

giozero import

LEDfrom time

import sleep

red=LED(17)

yellow=LED(2

2)

green=LED(2

7) While True:

 red.on()

 sleep(15)

 red.off() sleep(1)

 yellow.on()

 sleep(10)

 yellow.off()

 sleep(1)

 green.on()

 sleep(10)

 green.off()

 sleep(1)

