



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 gpiozero import
```

LED from 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)

