



# ASSIGNMENT 3

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(Team  
Member)

**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)`

