

ASSIGNMENT3

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LEDBLINKINGUSINGRASPBERRYPI: PYTHONCODE:

```
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 end program():
```

```
    GPIO.output(ledPin, GPIO.LOW)
```

```
    GPIO.cleanup()
```

```
if __name__ == '__main__':  
    setup()  
    try:  
        loop()  
    except KeyboardInterrupt: endprogram()
```

TRAFFICLIGHTUSINGRASPBERRYPI: PYTHONCODE:

```
from gpiozero import LED  
from time import sleep  
red = LED(22) orange = LED(27)  
green = LED(17) while True:  
    red.on() sleep(1)  
    orange.on(1)  
        sleep(1) green.on()  
        sleep(1) red.off()  
        sleep(1) orange.off()  
        sleep(1) green.off()
```