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 LED
from time import sleep
red=LED(17)
yellow=LED(22)
green=LED(27)
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)