

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(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)