

IBM ASSIGNMENT- 3

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Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

Program:

```
import RPi.GPIO as GPIO

import time
import signal

import sys

GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)

GPIO.setup(10, GPIO.OUT)

GPIO.setup(11, GPIO.OUT)

def allLightsOff(signal, frame):
    GPIO.output(9, False)

    GPIO.output(10, False)
    GPIO.output(11, False)
    GPIO.cleanup()
    sys.exit(0)

signal.signal(signal.SIGINT, allLightsOff)
```

```
while True:
```

```
    GPIO.output(9, True)  
    time.sleep(3)
```

```
    GPIO.output(10, True)  
    time.sleep(1)
```

```
    GPIO.output(9, False)  
    GPIO.output(10, False)
```

```
    GPIO.output(11, True)
```

```
    time.sleep(5)
```

```
    GPIO.output(11, False)  
    GPIO.output(10, True)
```

```
    time.sleep(2)
```

```
    GPIO.output(10, False)
```