

ASSIGNMENT – 3

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LED code:

```
import RPi.GPIO as GPIO
```

```
from time import sleep
```

```
GPIO.setwarnings(False)
```

```
GPIO.setmode(GPIO.BOARD)
```

```
GPIO.setup(8,GPIO.OUT,initial=GPIO.LOW)
```

```
while True:
```

```
    GPIO.output(8,GPIO.HIGH) # on
```

```
    sleep(5)
```

```
    GPIO.output(8,GPIO.LOW) # off
```

```
    sleep(5)
```

Traffic Light code:

```
from gpiozero import Button,TrafficLights,Buzzer  
from time import sleep
```

```
buzzer=Buzzer(18)
```

```
button=Button(30)
```

```
lights=TrafficLights(20,5,6)
```

```
while True:
```

```
    button.wait_for_press()
```

```
    buzzer.on()
```

```
    lights.green.on()
```

```
    sleep(5)
```

```
    lights.amber.on()
```

```
    sleep(2)
```

```
    lights.red.on()
```

```
    sleep(3)
```

```
    lights.off()
```

```
    buzzer.off()
```