

Assignment 3

LED Blinking: -

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

```
import time
```

```
ledPin=22
```

Question: -
Write a python code for Blinking LED and Traffic lights for Raspberry pi.

```
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)
```