PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI

CODE FOR BLINKING LIGHT:

```python
import time
import RPi.GPIO as GPIO       ## Import GPIO library
GPIO.setmode(GPIO.BOARD)      ## Use board pin numbering
GPIO.setup(11, GPIO.OUT)      ## Setup GPIO Pin 11 to OUT
while True:
        GPIO.output(11,True)   ## Turn on Led
        time.sleep(1)        ## Wait for one second
        GPIO.output(11,False) ## Turn off Led
        time.sleep(1)
```

FOR TRAFFIC LIGHT:

```python
import RPi.GPIO as GPIO
import time
import signal
import sys
# Setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
# Turn off all lights when user ends demo
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)
```

Loop forever

```python
while True:
    # Red
    GPIO.output(9, True)
    time.sleep(3)
    # Red and amber
    GPIO.output(10, True)
    time.sleep(1)
    # Green
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, True)
    time.sleep(5)
    # Amber
    GPIO.output(11, False)
    GPIO.output(10, True)
    time.sleep(2)
    # Amber off (red comes on at top of loop)
    GPIO.output(10, False)
```

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