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## **ASSIGNMENT-3**

Write Python Code for Blinking LED and Traffic Lights for Raspberry Pi.

```
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)
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)