

ASSIGNMENT-3

1.WRITE PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPERRY PI?

```
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:
    # Red
    GPIO.output(9, True)
    time.sleep(3)
    GPIO.output(10, True)
    time.sleep(1)
    # Green
    GPIO.output(9, False)
    GPIO.output(10, False)
```

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

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

```
# Yellow
```

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

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

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

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