

## ASSIGNMENT-3

### 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)

        # 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)
```