***PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI***

**#Python code for blinding LED:**

*Import RPi.GPIO as GPIO* #Import Raspberry Pi GPIO library

*from time import sleep* #Import sleep function from time module

*GPIO.setwarnings(False)* #Ignore warning for now

*GPIO.setmode(GPIO.BOARD)* #Use physical pin numbering

*GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)*

*while True:*

*GPIO.output(8, GPIO.HIGH)*

*sleep(1)*

*GPIO.output(8, GPIO.LOW)*

*sleep(1)*

**#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:* # Loop forever

*GPIO.output(9, True)*  # Red

*time.sleep(3)*

*GPIO.output(10, True)*  # Red and amber

*time.sleep(1)*

*GPIO.output(9, False)* # Green

*GPIO.output(10, False)*

*GPIO.output(11, True)*

*time.sleep(5)*

*GPIO.output(11, False)* # Amber

*GPIO.output(10, True)*

*time.sleep(2)*

*GPIO.output(10, False)* # Amber off (red comes on at top of loop)