**ASSIGNMENT-3**

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**Write python code for blinking LED and Traffic lights for Raspberry pi.Only python code is enough, no need to execute in raspberry pi.**

**Code:**

**#Blinking LED**

**import RPi.GPIO as GPIO**

**import time**

**GPIO.setmode(GPIO.BCM)**

**GPIO.setwarnings(False)**

**GPIO.setup(18,GPIO.OUT)**

**print("LED on")**

**GPIO.output(18,GPIO.HIGH)**

**time.sleep(1)**

**print("LED off")**

**GPIO.output(18,GPIO.LOW)**

**#Traffic Light**

**from gpiozero import Button, TrafficLights, Buzzer**

**from time import sleep**

**buzzer = Buzzer(15)**

**button = Button(21)**

**lights = TrafficLights(25, 8, 7)**

**#Button 21**

**#Red LED 25**

**#Yellow LED 08**

**#Green LED 07**

**#Buzzer 15**

**while True:**

**button.wait\_for\_press()**

**buzzer.on()**

**light.green.on()**

**sleep(1)**

**lights.amber.on()**

**sleep(1)**

**lights.red.on()**

**sleep(1)**

**lights.off()**

**buzzer.off()**

**In Compiler:**

#Blinking LED  
  
import RPi.GPIO as GPIO  
import time  
GPIO.setmode(GPIO.BCM)  
GPIO.setwarnings(False)  
GPIO.setup(18,GPIO.OUT)  
print("LED on")  
GPIO.output(18,GPIO.HIGH)  
time.sleep(1)  
print("LED off")  
GPIO.output(18,GPIO.LOW)  
  
#Traffic Light  
from gpiozero import Button, TrafficLights, Buzzer  
from time import sleep  
buzzer = Buzzer(15)  
button = Button(21)  
lights = TrafficLights(25, 8, 7)  
  
#Button 21  
#Red LED 25  
#Yellow LED 08  
#Green LED 07  
#Buzzer 15  
while True:  
 button.wait\_for\_press()  
 buzzer.on()  
 light.green.on()  
 sleep(1)  
 lights.amber.on()  
 sleep(1)  
 lights.red.on()  
 sleep(1)  
 lights.off()  
 buzzer.off()