

Assignment -3

Assignment Date	10 October 2022
Student Name	Thinaayyanar.R
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Maximum Marks	2 Marks

Question:

Write python code for blinking LED and Traffic lights for Raspberry pi.(only python code).

Python code for blinking LED:

```
import RPi.GPIO as GPIO
import time

#assign numbering for the
GPIO.setmode(GPIO.BCM)

GPIO.setmode(GPIO.BOARD)

cnt=0

MAIL_CHECK_FREQ=1 # change LED status every 1
seconds
RED_LED=4
GPIO.setup(RED_LED,
GPIO.OUT)
while True:
    if cnt==0:
        GPIO.output(RED_LED,False)
        cnt=1
    else:
        GPIO.output(RED_LED,True)
        cnt=0

    time.sleep(MAIL_CHECK_FREQ)

GPIO.cleanup()
```

Python code for Traffic lights:

```
from gpiozero import Button, TrafficLights,
Buzzer
from time import sleep

buzzer=Buzzer(15)
button=Button(21)
lights=TrafficLights(25, 8, 7)
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()
```