

Assignment -3

Assignment Date	10 October 2022
Student Name	Gobinath G
Student Roll Number	611219106022
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)

# assign numbering for the GPIO using Board
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()
```