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Assignment 3:

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

Only python code is enough, no need to execute in raspberry pi.

Note: you are allowed to use web search and complete the assignment.
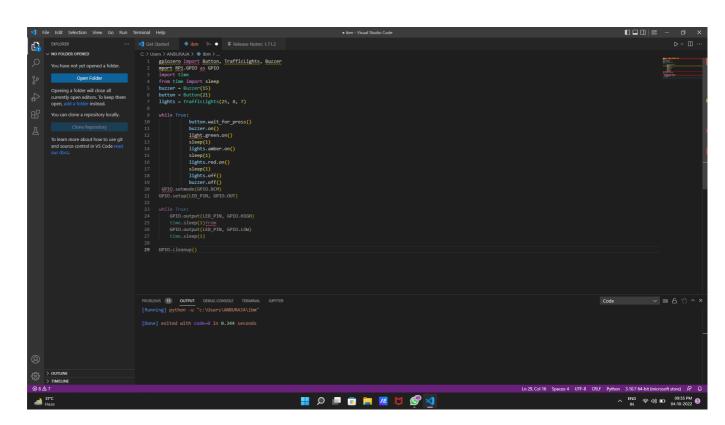
Program :

```
gpiozero import Button, TrafficLights, Buzzer

mport RPi.GPIO as GPIO

import time

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()

 GPIO.setmode(GPIO.BCM)

GPIO.setup(LED_PIN, GPIO.OUT)


while True:

    GPIO.output(LED_PIN, GPIO.HIGH)

    time.sleep(1)from

    GPIO.output(LED_PIN, GPIO.LOW)

    time.sleep(1)


GPIO.cleanup()
```

Screenshot 1 :

Sreenshot 2 :
Program :

```
gpiozero import Button, TrafficLights, Buzzer
mport RPi.GPIO as GPIO
import time
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()
 GPIO.setmode(GPIO.BCM)
GPIO.setup(LED_PIN, GPIO.OUT)

while True:
    GPIO.output(LED_PIN, GPIO.HIGH)
    time.sleep(1)from
    GPIO.output(LED_PIN, GPIO.LOW)
    time.sleep(1)

GPIO.cleanup()
```

Screenshot 3 :
Output :

```
PROBLEMS 15    OUTPUT    DEBUG CONSOLE    TERMINAL    JUPYTER                                    Code

[Running] python -u "c:\Users\ANBURAJA\ibm"

[Done] exited with code=0 in 0.344 seconds
```