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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.

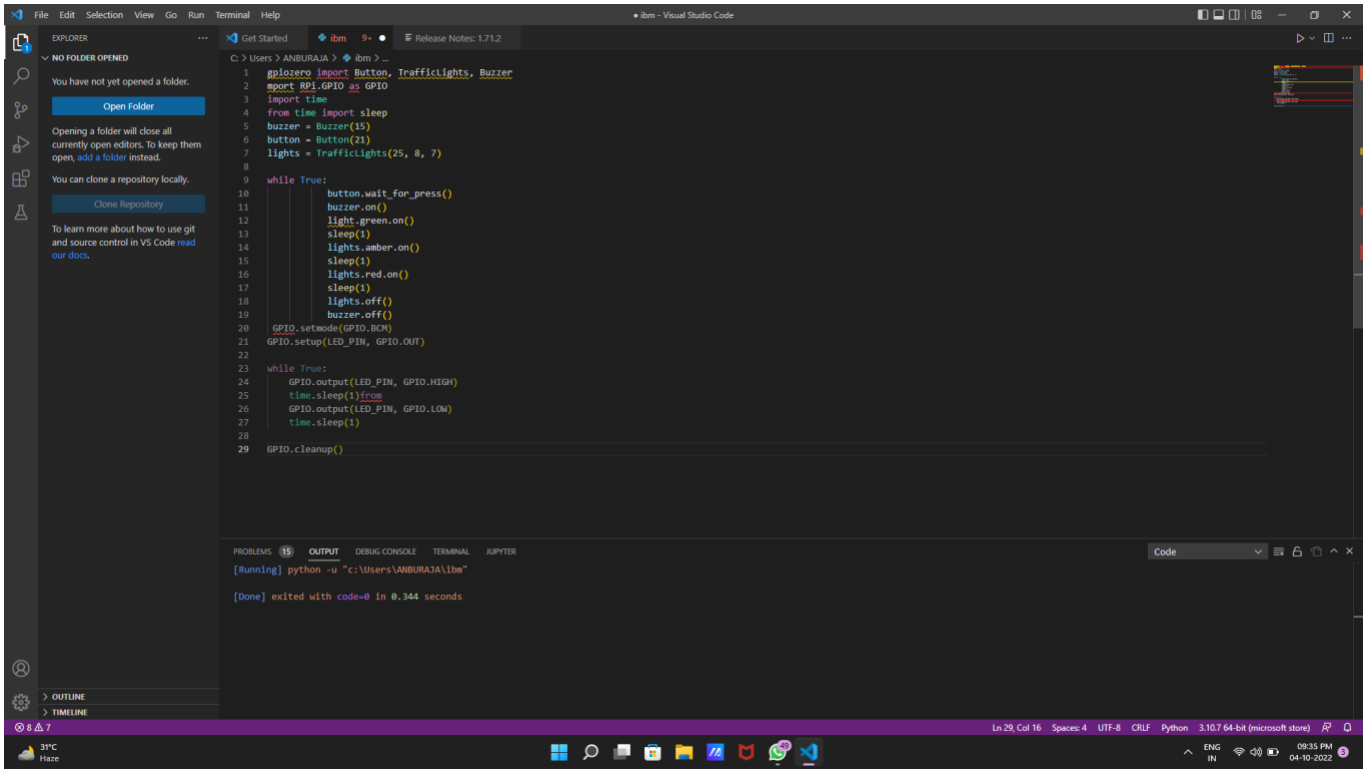
Note: you are allowed to use web search and complete the assignment.

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 :

```
ers > ANBURAJA > ibm > ...
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
```

Ln 29, Col 16 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit (microsoft store)

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