ASSIGNMENT 3:

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

From gpiozero import Button button = Button(21) while True: print(button.is_pressed)

while True: if

button.is_pressed:

print("Hello") else:

print("Goodbye") while True:

button.wait_for_press()

print (" Pressed)

button.wait_for_release()

print("Released") from gpiozero

import Button, LED led = LED(25)

while True:

button.wait_for_press()

led.on()

button.wait_for_release()

led.off()

while True:

led.blink()

button.wait_for_press()

led.off() button.wait_for_release()

from gpiozero import Button, TrafficLights

lights = TrafficLights(25, 8, 7) while True:

button.wait_for_press()

lights.on()

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    button.wait_for_release()
    lights.off()

while True:

    lights.blink()

    button.wait_for_press()

    lights.off() button.wait_for_release() from

gpiozero import Button, TrafficLights, Buzzer

buzzer = Buzzer(15) while True:

    lights.on()

    buzzer.off()

    button.wait_for_press()

    lights.off() buzzer.on()

    button.wait_for_release()

while True:

    lights.blink()

    buzzer.beep()

    button.wait_for_press()

    lights.off() buzzer.off()

    button.wait_for_release()

from time import sleep

while True:

    lights.green.on()

sleep(1)

    lights.amber.on()

sleep(1) lights.red.on()

sleep(1) lights.off()

while True:

    button.wait_for_press()

    lights.green.on()
```

```
sleep(1)

lights.amber.on()
sleep(1) lights.red.on()

sleep(1) lights.off()
```