

Assignment - 3

Question:

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

Solution:

Program 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()
```

Program to interface LED with Raspberry pi:

```
from gpiozero import Button, LED
led = LED(25)
button = Button(21)
while True:
    button.wait_for_press()
    led.on()
    print("Pressed")
    button.wait_for_release()
    led.off()
    print("Released")
```