Assignment -3 Python Programming for Raspberry pi

Question-1:

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.

SOLUTION:

PYTHON CODE FOR BLINKING LED FOR RASPBERRY PI

```
from gpiozero import Button, LED from gpiozero import TrafficLights from gpiozero import Buzzer from time import sleep
```

```
button = Button(21)
led = LED(25)
lights = TrafficLights(25, 8, 7)
buzzer = Buzzer(15)
while True:
  button.wait_for_press()
  print("Pressed")
  button.wait for release()
  print("Released")
while True:
  led.blink()
  button.wait_for_press()
  led.off()
  button.wait_for_release()
while True:
  lights.blink(2, 2)
  buzzer.beep()
  button.wait_for_press()
```

lights.off()

```
buzzer.off()
button.wait_for_release()

while True:
lights.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
```