Question-1:

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

Solution:

Program:

```python
import RPi.GPIO as GPIO

import time

LED = 40

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(LED, GPIO.OUT)


while True:


    GPIO.output(LED,GPIO.HIGH)

    time.sleep(1)

    GPIO.output(LED,GPIO.LOW)

    time.sleep(1)



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(3)

        lights.amber.on()

        sleep(1)

        lights.red.on()

        sleep(3)

        lights.off()

        buzzer.off()

Footer
```