Assignment -3
Python Programming

Question-1:

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

Solution:

```python
import RPi.GPIO as GPIO
import time

LED_PIN_RED = 12
LED_PIN_YELLOW = 27
LED_PIN_GREEN = 17

GPIO.setmode(GPIO.BCM)
GPIO.setup(LED_PIN_RED, GPIO.OUT)
GPIO.setup(LED_PIN_GREEN, GPIO.OUT)
GPIO.setup(LED_PIN_YELLOW, GPIO.OUT)

while True:
GPIO.output(LED_PIN_RED, GPIO.HIGH)
time.sleep(1)
GPIO.output(LED_PIN_RED, GPIO.LOW)

GPIO.output(LED_PIN_YELLOW, GPIO.HIGH)    time.sleep(1)
GPIO.output(LED_PIN_YELLOW, GPIO.LOW)

GPIO.output(LED_PIN_GREEN, GPIO.HIGH)     time.sleep(1)
GPIO.output( LED_PIN_GREEN, GPIO.LOW)     time.sleep(1)

GPIO.cleanup()
```