Assignment – III

Python code for blinking LED and Traffic Lights for Raspberry Pi

```python
# Blink an LED

import RPi.GPIO as gpio

from time import sleep


gpio.setwarnings(False)

gpio.setmode(GPIO.BOARD)

gpio.setup(10, GPIO.OUT, initial=GPIO.LOW)

while True:

    gpio.output(10, GPIO.HIGH)

    sleep(1)

    gpio.output(10, GPIO.LOW)

    sleep(1)


# Traffic Light


import RPi.GPIO as gpio

from time import sleep


gpio.setwarnings(False)

gpio.setmode(GPIO.BOARD)

gpio.setup(30, GPIO.OUT, initial=GPIO.LOW) # Red

gpio.setup(31, GPIO.OUT, initial=GPIO.LOW) # Yellow

gpio.setup(32, GPIO.OUT, initial=GPIO.LOW) # Green
```

```python
while True:

    gpio.output(30, GPIO.HIGH)

    sleep(50)

    gpio.output(31, GPIO.HIGH)

    sleep(5)

    gpio.output(30, GPIO.LOW)

    sleep(5)

    gpio.output(31, GPIO.LOW)

    gpio.output(32, GPIO.HIGH)

    sleep(50)

    gpio.output(32, GPIO.LOW)

    gpio.sleep(1)
```