## Assignment 3

## Python code for blinking LED and Traffic light using Raspberry Pi

## **Blinking LED**

```
from machine import Pin import utime led = Pin(28, Pin.OUT) led.low() while True:
    led.toggle()
    print("Toggle")
    utime.sleep(1)
```

## Traffic light

```
import time
import board
import digitalio
```

```
red_led = digitalio.DigitalInOut(board.GP11)
red_led.direction = digitalio.Direction.OUTPUT
amber_led = digitalio.DigitalInOut(board.GP14)
amber_led.direction = digitalio.Direction.OUTPUT
```

```
green_led = digitalio.DigitalInOut(board.GP13)
green_led.direction = digitalio.Direction.OUTPUT
```

```
while True:
    red_led.value = True
    time.sleep(5)
    amber_led.value = True
    time.sleep(2)
    red_led.value = False
    amber_led.value = False
    green_led.value = True
    time.sleep(5)
    green_led.value = False
    amber_led.value = True
    time.sleep(3)
    amber_led.value = False
```



