

ASSIGNMENT-03

1. Python code to blink LED

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)
    GPIO.output(8, GPIO.LOW)
    sleep(1)
```

2. Python code to blink the traffic lights

```
from gpiozero import LED, Button
from time import sleep
red = LED(18)
amber = LED(2)
green = LED(17)
button = Button(3)
print("Press the button when you want to cross.")
green.on()
amber.off()
red.off()
while True:
    print("Wait")
```

```
button.wait_for_press()
green.off()
amber.on()
sleep(5)
amber.off()
red.on()
print("Cross now.")
sleep(10)
amber.on()
sleep(5)
green.on()
amber.off()
red.off()
```