

Assignment -3

Assignment Date	6 October 2022
Student Name	Mr. M. Karunanithi
Student Roll Number	510119106701
Maximum Marks	2 Marks

Question:

Write a python code for Blinking led and traffic light in raspberry pi.

1.Blinking led

Code:

```
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.Traffic light

Code:

```
import RPi.GPIO as GPIO
import time
def lightTraffic(led1, led2, led3, delay):
    GPIO.output(led1, 1)
    time.sleep(delay)
    GPIO.output(led1, 0)
    GPIO.output(led2, 1)
    time.sleep(delay)
    GPIO.output(led2, 0)
    GPIO.output(led3, 1)
    time.sleep(delay)
    GPIO.output(led3, 0)
ledGreen = 16
ledYellow = 12
ledRed = 23
GPIO.setup(ledGreen, GPIO.OUT)
GPIO.setup(ledYellow, GPIO.OUT)
GPIO.setup(ledRed, GPIO.OUT)
while True:
    lightTraffic(ledGreen, ledYellow, ledRed, 1)
```