

ASSIGNMENT – 3

PYTHON CODE

Assignment Date	6 October 2022
Student Name	PAVITHRA S
Student Roll Number	19CS104
Maximum Marks	2 Marks

QUESTION:

Write a python code for blinking LED for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

SOLUTION:

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BCM)
cnt=0
MAIL_CHECK_FREQ=1
RED_LED=4
GPIO.setup(RED_LED,GPIO.OUT)
while True:
    if cnt==0:
        GPIO.Output(RED_LED,Flase)
        cnt=1
    else:
        GPIO.output(RED_LED,True)
        cnt=0
    time.sleep(MAIL_CHECK_FREQ)
GPIO.cleanup()
```

QUESTION 2:

Write a python code for Traffic light for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

SOLUTION:

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BOARD)
red=7
Yellow=11
Green=13
GPIO.setup(red,GPIO.OUT)
GPIO.setup(yellow,GPIO.OUT)
GPIO.setup(green,GPIO.OUT)
while True:
    GPIO.Output(red,True)
    Sleep(3)
    GPIO.Output(red,Flase)
    GPIO.Output(yellow, True)
    Sleep (1)
    GPIO.Output(yellow,Flase)
    GPIO.Output(green,True)
    Sleep(3)
    GPIO.Output(green,Flase)
GPIO.cleanup()
```