ASSIGNMENT – 3

PYTHON CODE

Assignment Date	6 October 2022
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Student Roll Number	19CS096
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_FERQ=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()
```