**MARTHANDAM COLLEGE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**ASSIGNMENT 3**

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**Write python code for blinking LED and traffic light for Raspberry Pi.**

**blinking LED:**

# Raspberry Pi 3 Model B

import RPi.GPIO as GPIO

from time import sleep

GPIO.setmode(GPIO.BCM)

GPIO.setwarnings(False)

LED = 14

GPIO.setup(LED,GPIO.OUT)

while True:

GPIO.output(LED,GPIO.HIGH)

sleep(1)

GPIO.output(LED,GPIO.LOW)

sleep(1)

**traffic light:**

# Raspberry Pi 3 Model B

import RPi.GPIO as GPIO

from time import sleep

GPIO.setmode(GPIO.BCM)

GPIO.setwarnings(False)

Red\_LED = 14

Green\_LED = 15

Yellow\_LED = 23

GPIO.setup(LED,GPIO.OUT)

def stop():

GPIO.output(Red\_LED,GPIO.HIGH)

sleep(30)

GPIO.output(Red\_LED,GPIO.LOW)

sleep(30)

def be\_redy():

GPIO.output(Yellow\_LED,GPIO.HIGH)

sleep(10)

GPIO.output(Yellow\_LED,GPIO.LOW)

sleep(10)

def go():

GPIO.output(Green\_LED,GPIO.HIGH)

sleep(50)

GPIO.output(Green\_LED,GPIO.LOW)

sleep(50)

While true:

go()

be\_redy()

stop()