## **ASSIGNMENT-3**

NAME: Laiyancemary A

Reg.No: 812019106016

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

Code:

**#Blinking LED** 

import RPi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

 $\label{lem:GPIO.setwarnings} GPIO.setwarnings(False)$ 

**GPIO.setup(18,GPIO.OUT)** 

print("LED on")

**GPIO.output(18,GPIO.HIGH)** 

time.sleep(1)

print("LED off")

**GPIO.output(18,GPIO.LOW)** 

## **#Traffic Light**

```
from gpiozero import Button, TrafficLights, Buzzer
```

from time import sleep

buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7)

#Button 21

#Red LED 25

#Yellow LED 08

#Green LED 07

#Buzzer 15

while True:

 $button.wait\_for\_press()$ 

buzzer.on()

light.green.on()

sleep(1)

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)

lights.off()

buzzer.off()

## In Compiler: