

### ASSIGNMENT 3

Assignment date	1 oct 2022
Student name	Vishal rajashekar
Reg No	111519104173
Maximum Mark	2mark

#### **Assignment 3:**

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

#### **Code for Blinking LED:**

```
import RPi.GPIO as GPIO
import time
LED = 40
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(LED,GPIO.OUT)
while True:
    GPIO.output(LED,GPIO.HIGH)
    time.sleep(1)
    GPIO.output(LED,GPIO.LOW)
    time.sleep(1)
```

#### **Code for Traffic Light System:**

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
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()
```