

### ASSIGNMENT 3

Assignment date	1 oct 2022
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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()
```