

### Assignment -3

Project title	Smart Waste Management System for Metropolitan Cit
Team ID	PNT2022TMID32675
Team Member	Thiyagarajan S
Register number	813819104111

#### Question-1:

Write a python code for blinking led and traffic lights for Raspberry pi.

#### **Solution:[BLINKING LED]**

```
import RPi.GPIO as GPIO
    #import
    RPi.GPIO module
import time
LED = 40
    #pin no. as per
    BOARD
GPIO.setwarnings(False)
    #disable warnings
GPIO.setmode(GPIO.BOARD)
    #set pin numbering
format
GPIO.setup(LED, GPIO.OUT)
    #set GPIO as output

while True:

    GPIO.output(LED,GPIO.HIGH
    )
        time.sleep(1)

    GPIO.output(LED,GPIO.LOW
    )
        time.sleep(1)
```

#### **Solution:[BLINKING TRAFFIC LIGHTS]**

```
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()
```