

### Assignment -3

Date	5 October 2022
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Project Name	Smart Waste Management System for Metropolitan cities
Register Number	813819104111

#### Question-1:

Write a python code for blinking led and traffic lights for Rasberry 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.BOAR
D)
    #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()
```