ASSIGNMENT 3

Data	7/10/22
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Project Name	Smart Waste Management System For Metropolitan Cities.

Write Python code for blinking LED and Traffic lights for Raspberry pi.

Python Code For Blinking LED:

```
Import RPi.GPIO as GP
From time import sleep
GP.setwarnings(False)
GP.setmode(GP.BOARD)
GP.setup(8,GP.OUT,initial=GP.LOW)
While True: #infinite loop
GP.output(8, GPIO.HIGH) # Turn on
Print("The LED is ON")
Sleep(2) # Sleep for 2 second
GP.output(8, GPIO.LOW) # Turn off
Print("The LED is OFF")
Sleep(2) # Sleep for 2 second
```

Python code for Traffic light for Raspberry pi:

```
 from gpiozero import LED
from time import sleep

red= LED(17)    #pin numbers connected to Led's
aster=(22) green=(27)

while True:
   red.on()      #RED light
   print("Red light is ON")
for i in range(100,0,-1):
   print("Remaining time: ",i)
sleep(1) red.off()

   aster.on() # ASTER light
   print("Yellow light is ON")
for i in range(5,0,-1):
      print("Remaining time: ",i)
sleep(1) aster.off()

  green.on #GREEN light
print("Green light is ON")
for i in range(30,0,-1):
      print("Remaining time: ",i) \
sleep(1) green.off()
```