## **Assignment-3:**

```
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```

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Smart waste management for metropolitan cities .

Question - Write python code for blinking LED and traffic lights for raspberry pi.

## **Program for blinking LED:**

except KeyboardInterrupt:

time.sleep(1)

GPIO.cleanup()

## **Program for Traffic Light:**

```
import RPi.GPIO as GPIO
import time
ledGreen = 16
ledYellow = 12
ledRed = 23
button = 19
GPIO.setmode(GPIO.BOARD)
GPIO.setup(16, GPIO.OUT)
GPIO.setup(12, GPIO.OUT)
GPIO.setup(23, GPIO.OUT)
GPIO.setup(19, GPIO.IN, pull_up_down=GPIO.UP)
while True:
 button_state = GPIO.input(19)
 if button_state == True:
  GPIO.output(16,True)
  time.sleep(1)
  GPIO.output(16,False)
```

```
GPIO.output(12,True)
  time.sleep(1)
  GPIO.output(12,False)
  GPIO.output(23,True)
  time.sleep(1)
  GPIO.output(23,False)
  time.sleep(1)
 else:
  if button_state == False:
   GPIO.output(16,False)
   GPIO.output(12,False)
   GPIO.output(23,False)
   time.sleep(1)
except KeyboardInterrupt:
GPIO.cleanup()
```