## **Assignment -3**

Assignment Date	07 October 2022
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Maximum Marks	2 Marks

## **Question:**

Write python code for blinking LED and Traffic lights for Raspberry pi.(only python code).

## **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 lights:**

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()
```