Assignment Date	08 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).

## **Solution:**

## 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.LO

W)

```
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
```

```
#pin numbers connected to Led's
red = LED(17)
aster=(22)
green=(27)
while True:
                      #RED LIGHT
  red.on()
  print("Red light is
  ON") for i in
  range(100,0,-1):
    print("Remaining time:
    ",i) sleep(1)
  red.off()
                      # ASTER
  aster.on()
  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()
```