

Assignment -3

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.

Blinking Of an LED For Raspberry Pi

```
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
```

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()