

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()
```