Assignment -3

Python Programming

Assignment Date	06 Octber 2022
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Maximum Marks	2 Marks

Write Python Code For Blinking LED And Traffic Lights For Raspberry Pi

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 for 2 second
  sleep(2)
```

TRAFFIC LIGHT

```
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()
```