Assignment -3

Assignment Date	08 October 2022
Student Name	Jayakumar M
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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.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 LIGHT
  green.on
  print("Green light is ON")
  for i in range(30,0,-1):
    print("Remaining time: ",i)
    sleep(1)
  green.off()
```