ASSIGNMENT -3

Date	05 October 2022
Team ID	PNT2022TMID01185
Name	SMARTFARMER - IoT enabled smart farming applications

QUESTION:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi. Note: you are allowed to use web search and complete the assignment

Code for LED blinking

```
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 for 2 second
  sleep(2)
  GP.output(8, GPIO.LOW)
                                  # Turn off
  print("The LED is OFF")
  sleep(2)
                     # Sleep for 2 second
```

Code for Traffic light raspberry python code

from gpiozero import LED from time import sleep

```
red= LED(17)
                      #pin numbers connected to Led's
<u>aster=(22)</u>
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()
```