Assignment -3

Assignment Date	5 October 2022
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Maximum Marks	2 Marks

Question-1:

Write a python code for blinking LED and Traffic lights for Raspberry pi.

Solution:

#LED BLINKING:

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
while True:
                      #infinite loop
  GPIO.output(8, GPIO.HIGH)
                                    # Turn on
  print("The LED is ON")
  sleep(5)
                     # Sleep for 5 second
  GPIO.output(8, GPIO.LOW)
                                    # Turn off
  print("The LED is OFF")
  sleep(5)
                     # Sleep for 5 second
```

#TRAFFIC LIGHT CODE:

from gpiozero import LED from time import sleep

```
red= LED(17) #pin numbers connected to Led's amber=(22) green=(27)

while True: red.on() #RED light print("Red light is ON") for i in range(60,0,-1): print("Remaining time: ",i)
```

```
sleep(1)
red.off()
amber.on()
                     # AMBER light
print("Yellow light is ON")
for i in range(5,0,-1):
  print("Remaining time: ",i)
  sleep(1)
amber.off()
                    #GREEN light
green.on
print("Green light is ON")
for i in range(40,0,-1):
  print("Remaining time: ",i)
  sleep(1)
green.off()
```