Assignment -3

| Assignment Date | 12 October 2022 |
|---------------------|-----------------|
| Student Roll Number | 7376191EC258 |
| Maximum Marks | 2 Marks |

TEAM ID - PNT2022TMID01830

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:

GPIO.output(8, GPIO.HIGH)
print("The LED is ON")
sleep(5) # Sleep for 5 second

GPIO.output(8, GPIO.LOW)
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.on
                    #GREEN light
print("Green light is ON")
for i in range(40,0,-1):
  print("Remaining time: ",i)
  sleep(1)
green.off()
```