

### Assignment -3

Assignment Date	12 October 2022
Student Roll Number	7376191EC245
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()
```