

## ASSIGNMENT-3

Assignment Date	27-September-2022
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Student Roll Number	111519104145
Maximum Marks	2 Marks

### Question-1:

## LED BLINKING

### CODE:

```
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 light is ON")
    sleep(2)                                # Sleeps for 2 seconds

    GPIO.output(8, GPIO.LOW)                 # Turn off
    print("The LED light is OFF")
    sleep(2)                                # Sleeps for 2 seconds
```

## Question-2

### TRAFFIC\_LIGHT\_CODE

#### 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()
```

