

ASSIGNMENT-3

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Student Roll Number	92172019104032
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()
```