

### Assignment-3

Assignment Date	29.09.2022
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Maximum Marks	2 Marks

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

**Code:**

#### 1. LED Blinking

#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
```

#### 2. TRAFFIC LIGHT

```
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()
```