

Assignment - 3

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

LED Blinking:

```
ain.py
1  #LED BLINKING
2
3  import RPi.GPIO as GPIO
4      from time import sleep
5
6      GPIO.setwarnings(False)
7      GPIO.setmode(GPIO.BOARD)
8      GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
9
10     while True:                                #infinite loop
11         GPIO.output(8, GPIO.HIGH)                # Turn on
12         print("The LED is ON")
13         sleep(5)                                # Sleep for 5 second
14
15         GPIO.output(8, GPIO.LOW)                  # Turn off
16         print("The LED is OFF")
17         sleep(5)                                # Sleep for 5 second
```

TRAFFIC LIGHT:

main.py

```
1 from gpiozero import LED
2 from time import sleep
3
4
5 red= LED(17)           #pin numbers connected to Led's
6 amber=(22)
7 green=(27)
8
9
10 while True:
11     red.on()           #RED light
12     print("Red light is ON")
13     for i in range(60,0,-1):
14         print("Remaining time: ",i)
15         sleep(1)
16     red.off()
17
18     amber.on()         # AMBER light
19     print("Yellow light is ON")
20     for i in range(5,0,-1):
21         print("Remaining time: ",i)
22         sleep(1)
23     amber.off()
24
25     green.on           #GREEN light
26     print("Green light is ON")
27     for i in range(40,0,-1):
28         print("Remaining time: ",i)
29         sleep(1)
30     green.off()
```