

ASSIGNMENT-3

Assignment Date	27-September-2022
Student Name	Mr. MANNE NAGA BHARATH
Student Roll Number	111519106084
Maximum Marks	2 Marks

Question:

Write Python Code for blinking LED and Traffic lights for Raspberry pi.

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
```

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()
```