# Assignment -3

|  |  |
| --- | --- |
| Assignment Date | 07 October 2022 |
| Student Name | Thirugnanabahrathi.R |
| Student Roll Number | 722819106107 |
| Maximum Marks | 2 Marks |

**Question:**

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

code).

# Python code for blinking LED:

import RPi.GPIO as GP from time import sleep

GP.setwarnings(False) GP.setmode(GP.BOARD) GP.setup(8,GP.OUT,initial=GP.LOW)

while True: #infinite loop GP.output(8, GPIO.HIGH) # Turn on print("The LED is ON")

sleep(2) # Sleep for 2 second

GP.output(8, GPIO.LOW) # Turn off print("The LED is OFF")

sleep(2) # Sleep for 2 second

# Python code for Traffic lights:

from gpiozero import LED from time import sleep

red= LED(17) #pin numbers connected to Led's aster=(22)

green=(27)

while True:

red.on() #RED LIGHT

print("Red light is ON") for i in range(100,0,-1):

print("Remaining time: ",i) sleep(1)

red.off()

aster.on() # ASTER LIGHT print("Yellow light is ON")

for i in range(5,0,-1): print("Remaining time: ",i) sleep(1)

aster.off()

green.on #GREEN LIGHT print("Green light is ON")

for i in range(30,0,-1): print("Remaining time: ",i) sleep(1)

green.off()