**Assignment -3**

Python Programming

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| Assignment Date | 03 october 2022 |
| Student Name | S.HEMAMALNI |
| Student Roll Number | 811019106016 |
| Maximum Marks | 2 Marks |

**Question-1:**

Write python code for blinking LED.

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| **Solution:** |
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|  | 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 |
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**Question-2:**

**Write a python code for Traffic Light Rasberry**

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| **Solution:** |
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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()