## Assignment -3

# **Python Programming**

Assignment Date	06 October 2022
Student Name	Mr.S.AYYANAR
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Maximum Marks	2 Marks

### Question-1:

# WRITE A PYTHON CODE FOR BLINKING LED FOR RASPBERRY PI.

# PROGRAM:

```
import RPi.GPIO as GPIO
import time
#assign numbering for the GPIO using BCM
GPIO.setmode(GPIO.BCM)
#assingn number for the GPIO using Board
#GPIO.setmode(GPIO.BOARD)
cnt = 0
MAIL_CHECK_FREQ = 1 # change LED status every 1 seconds
RED_LED = 4
GPIO.setup(RED_LED, GPIO.OUT)
while True:
ifcnt == 0:
GPIO.output(RED_LED, False)
cnt = 1
else:
GPIO.output(RED_LED, True)
cnt = 0
time.sleep(MAIL_CHECK_FREQ)
GPIO.cleanup()
```

\*IBM.py - C:/Users/user/AppData/Local/Programs/Python/Python37/IBM.py (3.7.0)\*

```
Question-2:
 WRITE A PYTHON CODE FOR TRAFFIC LIGHT RASPBERRY PI.
PROGRAM:
          from gpiozero import Button, TrafficLights, Buzzer
          from time import sleep
          buzzer = Buzzer(15)
          button = Button(21)
          lights = TrafficLights(25, 8, 7)
          while True:
                    button.wait_for_press()
                    buzzer.on()
                    light.green.on()
                    sleep(1)
                    lights.amber.on()
                    sleep(1)
                    lights.red.on()
                    sleep(1)
                    lights.off()
                    buzzer.off()
BMM.py - C:/Users/user/AppData/Local/Programs/Python/Python37/IBMM.py (3.7.0)
 File Edit Format Run Options Window Help
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
 buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
while True:
    button.wait_for_press()
    buzzer.on()
    light.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.red.on()
```