### **Assignment -3**

## **Python Programming**

Assignment Date	5 October 2022	
Student Name	M.YOGASRI	
Student Roll Number	510119106012	
Maximum Marks	2 Marks	

# Question-1:

Write python code for Traffic lights by using 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()
```

### Question-2:

Write 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()
```