# Assignment -3

# **Python Programming**

Assignment Date	06 October 2022
Student Name	Mr. ABDUL AZIZ M
Student Roll Number	812419106002
Maximum Marks	2 Marks

### Question-1:

Write a python code for led blinking in raspberry pi

#### **Solution:**

```
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()
```

# Question-2:

Write a python code for traffic light in raspberry pi

### **Solution:**

```
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()
```

```
*Untitled*
```

```
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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()
```