# Assignment 3 Question:

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

### CODE 1:

## **LED BLINKING**

```
import RPi.GPIO as GPIO import
time

GPIO.setmode(GPIO.BCM)
cnt = 0

MAIL_CHECK_FREQ = 1

RED_LED = 4

GPIO.setup(RED_LED, GPIO.OUT)
while True: if cnt == 0:

GPIO.output(RED_LED, False)
    cnt = 1

else:

    GPIO.output(RED_LED, True)
    cnt = 0

time.sleep(MAIL_CHECK_FREQ)

GPIO.cleanup()
```

### CODE 2:

## TRAFFIC LIGHTS FOR RASPBERRY PI

```
import RPi.GPIO as GPIO import time
try: def lightTraffic(led1, led2, led3,
delay):
        GPIO.output(led1, 1)
                  GPIO.output(led1, 0)
time.sleep(delay)
GPIO.output(led2, 1)
                      time.sleep(delay)
GPIO.output(led2, 0)
GPIO.output(led3, 1)
time.sleep(delay)
                  GPIO.output(led3, 0)
 GPIO.setmode(GPIO.BCM)
 button = 19
 GPIO.setup(button, GPIO.IN, pull_up_down=GPIO.PUD_UP)
ledGreen = 16 ledYellow = 12
 ledRed = 23
 GPIO.setup(ledGreen, GPIO.OUT)
 GPIO.setup(ledYellow, GPIO.OUT)
GPIO.setup(ledRed, GPIO.OUT)
while True:
  input_state = GPIO.input(button)
                                           if
input_state == False:
                        print('Button Pressed')
lightTraffic(ledGreen, ledYellow, ledRed, 1)
else:
   GPIO.output(ledGreen, 0)
   GPIO.output(ledYellow, 0)
GPIO.output(ledRed, 0) except
KeyboardInterrupt:
```

print ("You've exited the prog	gram")	
finally:		
GPIO.cleanup()		