## **ASSIGNMENT - 3**

Date	08 October 2022
Student Name	S.K.Saravanan
Project Name	Gas Leakage Monitering and Alerting System
Student roll number	821219104019
Maximum Marks	2 Marks

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

## **PROGRAM:**

```
import RPi.GPIO as GPIO
import time
try:
 def lightTraffic(led1, led2, led3, delay):
  GPIO.output(led1, 1)
  time.sleep(delay)
  GPIO.output(led1, 0)
  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)
   GPIO.output(ledGreen, 0)
   GPIO.output(ledYellow, 0)
   GPIO.output(ledRed, 0)
except KeyboardInterrupt:
print "You've exited the program"
finally:
GPIO.cleanup()
```