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NAMAKKAL
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IBM ASSIGNMENT-3

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BLINKING LED AND TRAFFIC LIGHTS USING PYTHON CODE :

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)
    else:
        GPIO.output(ledGreen, 0)
        GPIO.output(ledYellow, 0)
        GPIO.output(ledRed, 0)
    except KeyboardInterrupt:
        print "You've exited the program"
    finally:
        GPIO.cleanup()
```

