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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:

```python
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)
```

```python
    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()
```