ASSIGNMENT 3

NAME: MANNOJ KUMAR ROLL NUMBER: 718020L431

TOPIC: BLINKING LED AND TRAFFIC LIGHTS USING PYTHON CODE

CODE

```
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()
```



