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#!/usr/bin/python3
# trafficlights-solvepython04.py
#
# For workshops and further details see https://github.com/PiHw/Pi-Stop
# The PiStop is designed and produced jointly by PiHardware and 4Tronix
#
# Use "from ... import *" to directly import
# the pistop module into the code.
from pistop.pistop import *
import time

def trafficSTOP(pistop):
    ''' STOP = ->YELLOW->RED '''
    pistop.output(r,off)
    pistop.output(y,on)
    pistop.output(g,off)
    time.sleep(0.2)
    pistop.output(r,on)
    pistop.output(y,off)
    pistop.output(g,off)
    time.sleep(0.2)

def trafficGO(pistop):
    ''' GO = ->RED+YELLOW->GREEN '''
    pistop.output(r,on)
    pistop.output(y,on)
    pistop.output(g,off)
    time.sleep(0.2)
    pistop.output(r,off)
    pistop.output(y,off)
    pistop.output(g,on)
    time.sleep(0.2)

def flashYellow(pistop):
    '''Flash Yellow Light'''
    pistop.output(all,off)
    for i in range(4):
        pistop.output(y,on)
        time.sleep(0.2)
        pistop.output(y,off)
        time.sleep(0.2)

#Main Code
print("PiCity Chaos!")
with PiStop(hwSetup="A") as mypsa, \
    PiStop(hwSetup="B") as mypsb:
    mypsa.output(all,on)
    mypsb.output(all,on)
    time.sleep(2)
    mypsa.output(all,off)
    mypsb.output(all,off)
    time.sleep(2)
    while True:
        trafficGO(mypsa)
        trafficSTOP(mypsb)
        time.sleep(5)
        trafficSTOP(mypsa)
        trafficGO(mypsb)
        time.sleep(5)
```