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#!/usr/bin/python3
# trafficlights-solvepython03.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 myps:
  myps.output(all,on)
  time.sleep(2)
  myps.output(all,off)
  time.sleep(2)
  while True:
    trafficGO(myps)
    input("Press enter to cross")
    #Wait before stopping traffic
    time.sleep(2)
    trafficSTOP(myps)
    #Traffic is stopped, you can cross!
    time.sleep(5)
    #Time is nearly up!
    flashYellow(myps)
```