#This program takes in keystrokes, then outputs corresponding rudder positions for the f-14.

import urllib2

import time

class \_Getch:

"""Gets a single character from standard input. Does not echo to the

screen."""

def \_\_init\_\_(self):

try:

self.impl = \_GetchWindows()

except ImportError:

self.impl = \_GetchUnix()

def \_\_call\_\_(self): return self.impl()

class \_GetchUnix:

def \_\_init\_\_(self):

import tty, sys

def \_\_call\_\_(self):

import sys, tty, termios

fd = sys.stdin.fileno()

old\_settings = termios.tcgetattr(fd)

try:

tty.setraw(sys.stdin.fileno())

ch = sys.stdin.read(1)

finally:

termios.tcsetattr(fd, termios.TCSADRAIN, old\_settings)

return ch

class \_GetchWindows:

def \_\_init\_\_(self):

import msvcrt

def \_\_call\_\_(self):

import msvcrt

return msvcrt.getch()

def makeUri(ali, el):

return 'http://127.0.0.1:4000/props/controls/flight?submit=set&aileron=%f&elevator=%f' % (ali, el)

#getch--- expects n=neutral, r=right, l=left, u=up, d=down.

getch = \_Getch()

last\_char = '?'

while True:

pre\_getch = time.time()

a=getch()

post\_getch = time.time()

print 'Getch took %f' % (post\_getch - pre\_getch)

if (post\_getch - pre\_getch < 0.001) and (a == last\_char):

print 'Same character, skipping..'

continue

if a=='n':

print 'Neutral'

# req = urllib2.Request(url=makeUri(0.0, 0.0))

urllib2.urlopen(makeUri(0.0, 0.0))

elif a=='r':

print 'Right'

req = urllib2.Request(url=makeUri(0.3, 0.0))

urllib2.urlopen(req)

elif a=='l':

print 'Left'

req = urllib2.Request(url=makeUri(-0.3, 0.0))

urllib2.urlopen(req)

elif a=='u':

print 'Up'

req = urllib2.Request(url=makeUri(0, -0.3))

urllib2.urlopen(req)

elif a=='d':

print 'Down'

req = urllib2.Request(url=makeUri(0, 0.3))

urllib2.urlopen(req)

elif a=='q':

break

post\_req = time.time()

print 'Request took %f' % (post\_req - post\_getch)

last\_char = a