Python Through Arduino:

Go to cmd window…

Find c:\Python27\Scripts folder in DOS

Run cmd “pip install pyFirmata”

Run cmd “pip install –m --upgrade pip”

Open Win10-environment variables…

1)add new C:\Python27\ 2)add new C:\Python27\Scripts\

- go to cmd DOS and type “pip install –U pip”

-should state already up to date…

Download Arduino IDE

-in Ard IDE🡪file🡪examples🡪StandardFirmata

-upload this onto the Nano (pick board type (nano=old bootloader & port number)

- from cmd DOS type “pip install pyserial”

--see next page for python script to type…

#try this code in Python27…

from pyfirmata import Arduino, util

from pyfirmata.util import Iterator

import time

pin=13 #pin to turn on

port='com14' #read from Arduino IDE under Tools Port --> Com NOT '1'

board=Arduino(port)

iterator=Iterator(board)

iterator.start()

pin12=board.get\_pin('d:12:i')

pin12.enable\_reporting

while True: #run endlessly...

x=pin12.read() #get pin value

print x #check pin value

if x:#true...

print "pin12 on"

board.digital[pin].write(1)

time.sleep(0.9)

else:#false...

print "pin12 off"

board.digital[pin].write(0)

time.sleep(0.9)

board.exit()

NOTE:

* Change on/off times and see if this changes any behavior???