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# Program 6

# COMS-170-WWW01: Fall 2017

# Due: 11/6/2017

# Program: File Number Reader

Pseudocode

# import to use

import time

import sys

# function to print update to user, completely unnecessary but adds to the visual aspect of # program for user

function printUpdate(x)

for i in range(0 to x):

time.sleep(0.5)

print(“.”)

# verbose messages for user

print(“Opening numdata.text”)

# Prints visual updates for user

printUpdate(3)

# Try to open numdata.txt, raise IOError exception if it doesn’t exist

try:

open(“numdata.txt)

except:

print( “IOError Exception” )

sys.exit() # quit program

# create variables, default value = 0 for both

avgScore = 0

numDataLength = 0

# verbose messages for user

print(“File found”)

time.sleep(1)

print(“Reading numdata.txt”)

# Get all of the values in numdata.txt, add their values to a total and divide by the #numDataLength to get their average

for line in file numdata.txt:  
 try:

set avgScore to avgScore + line

set numDataLength to numDataLength + 1 # Java: numDataLength++

except:

print(“ValueError exception”)

if (avgScore == 0):

sys.exit() # quit program

else:

print(“Can continue anyway”)

# testing has found out that the program will just disregard lines with #other characters, and will continue to read lines that have only numbers and will provide an #average from those lines

# more user effect

printUpdate(3)

# print total points to user

print(“Total Points: “, avgScore)

# Now calculate average score

avgScore = avgScore/numDataLength

# display average score to user in percent

print(“Average Score: “, avgScore, “%”)