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#------------Ficha 9-------------(OS SYS E ABRIR CSV)
import sys
import os
import csv
import hashlib
#1
def fileCalc():
        fileOp = open('nums.txt','r')
        l = []
        while True:
                s = fileOp.readline()
                if s == "":
                        break
                else:
                        l.append(float(s.rstrip("\n")))
        fileOp.close()
        return(l,sum(l))

#print(fileCalc())

#2
def lusiadas():
        fileOp = open(sys.argv[1]).read().strip().replace("\n", "")
        fileOp = str.lower(fileOp)
        for c in sorted(set([c for c in fileOp])):
                if str.isalpha(c) == True:
                        print(c+" -", fileOp.count(c))
        fileOp.close()


"""to use: Python 9.py lusiadas.txt
lusiadas()"""

#3

def readList(x):
        try:
                fileOp = open(x,'r')
                l = []
                while True:
                        s = fileOp.readline()
                        if s == "":
                                break
                        else:
                                l.append(s.rstrip("\n"))
                fileOp.close()
                return l

        except FileNotFoundError:
                return('File Not Found')

def writeList(x):
        try:
                tryOpen = open(x,'r')
                tryOpen.close()
                fileOp = open(x,'a')
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                while True:
                        new =input('Number - ') +' - '+ input('Name -
')
                        if new == " - ":
                                break
                        else:
                                fileOp.write(new+'\n')
                fileOp.close()
                return(readList(x))

        except FileNotFoundError:
                return('File Not Found')

"""x = input("File Name - ")
print(writeList(x))"""

#4
def searchFile():
        for file in os.listdir(sys.argv[1]):
                if file.endswith(sys.argv[2]):
                        print(file)


#Command line must be like this:
# C:\Users\D.S\Desktop\FP\Redos>python 9.py
C:\Users\D.S\Desktop\FP\FP2 .py
# where the first argument is the path to the directory and the second
(".py") the file extension
# you wanna look for

#searchFile()


#5

#Made in FUCKING linux...angry sigh...

#6
#a)
def maxVol():
        with open('stocks.csv','r') as f:
                reader = csv.reader(f)
                a = 0
                b = ""
                for row in reader:
                        if int(row[6]) > a:
                                a = int(row[6])
                                b = row[0]
                return(b)

#print(maxVol())

#b)
def bestDay():
        with open('stocks.csv','r') as f:
                reader = csv.reader(f)
                e = {}
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                for row in reader:
                        d = row[0]
                        if d not in e:
                                a = float(row[3])
                                e[d] = (row[1],a)
                        else:
                                if float(row[3]) > a:
                                        a = float(row[3])
                                        e[d] = (row[1],a)
                return(e)

#print(bestDay())

#c)
def bestBoy():
        with open('stocks.csv','r') as f:
                reader = csv.reader(f)
                g = {}
                for row in reader:
                        d = row[0]
                        if d not in g:
                                a = float(row[3])
                                g[d] = a
                        else:
                                if float(row[3]) > a:
                                        a = float(row[3])
                                        g[d] = a
                v = list(g.values())
                k = list(g.keys())

                return k[v.index(max(v))],max(v)

#print(bestBoy())

#d)

#e)

#7
def compare2(x,y):
    kibibytes = 1024
    with open(x, 'r') as fp1, open(y, 'r') as fp2:
        while True:
            b1 = fp1.read(kibibytes)
            b2 = fp2.read(kibibytes)
            if b1 != b2:
                return False
            if not b1:
                return True

#print(compare2('1.txt','2.txt'))

#8
def searchAndSize(x):
        print ('\n',x,'\n')
        for file in os.listdir(x):
                path = os.path.join(x, file)
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                if os.path.isfile(path):
                        print(file,' - ',os.stat(path).st_size,'
Bytes')
                elif os.path.isdir(path):
                        searchAndSize(path)
#Remember: C:\Users\D.S\Desktop\FP\FP2
x = sys.argv[1]
#searchAndSize(x)

#9
def searchAndSize2(x,m):
        for file in os.listdir(x):
                path = os.path.join(x, file)
                if os.path.isfile(path):
                        if os.stat(path).st_size in m:
                                m[os.stat(path).st_size] += (file)
                        else:
                                m[os.stat(path).st_size] = file
                elif os.path.isdir(path):
                        searchAndSize2(path,m)
        return m
#m = {}
#print(searchAndSize2(x,m))

#10
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