FileTest.py
#
# Test Programs for Reading and Writing Text Files
#
# A text file is a string of characters separated (partitioned)
# by newline (\n) characters.
#
# e.g. "123\nabc\nhello\ngood-bye\n"
#
def main01():
    print
    infilename = raw_input("Enter a file name: ")
    print
    infile = open(infilename, "r")
    stuff = infile.readline()  # read file into one big string
    print stuff
    print
    infile.close()
def main02():
    print
    infilename = raw_input("Enter a file name: ")
    print
    infile = open(infilename, "r")
    stuff = infile.readline()  # read first line of file
    print stuff
    print
    infile.close()
def main02a():
    print
    infilename = raw_input("Enter a file name: ")
    print
    infile = open(infilename, "r")
    # sentinel value loop - while stuff is not empty
    stuff = infile.readline()  # read first line of file
    while stuff != "":
        print stuff
        stuff = infile.readline()  # read next line of file
    print
    infile.close()
def main03():
    print
    infilename = raw_input("Enter a file name: ")
    print
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infile = open(infilename, "r")
stuff = infile.readlines()  # read file into list of lines
print stuff
print
infile.close()

def main04():
    print
    infilename = raw_input("Enter a file name: ")
    print
    infile = open(infilename, "r")
    for stuff in infile:  # iterate over file
        print stuff
    print
    infile.close()

def main04a():
    print
    infilename = raw_input("Enter a file name: ")
    print
    infile = open(infilename, "r")
    for stuff in infile:  # iterate over file
        print stuff[:-1]  # delete trailing \n character
    print
    infile.close()

def main05():
    # writing to a text file
    print
    outfilename = raw_input("Enter output file name: ")
    print
    outfile = open(outfilename, "w")
    print "Enter any input for your file."
    print "When done enter an empty line."
    print
    stuff = raw_input("?: ")
    while stuff != "":
        outfile.write(stuff + "\n")  # include trailing \n
        stuff = raw_input("?: ")
    outfile.close()