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# This block will open a file for reading,
# read in the entire file using file.read()
# and print out the entire file
file1 = open('test1.txt','r')
print file1.read()

# This block, using variable file2 will read
# a file one character at a time, and print it
# to the screen
file2 = open('test1.txt','r')
while 1:    # while true
    char = file2.read(1)    # just one byte
    if not char: break     # jump out of the loop
    print char              # prints each character on its own line

# This block, using variable file3 will read
# a file one character at a time, and print it
# to the screen - like 2 space the output lines
file2 = open('test1.txt','r')
while 1:    # while true
    char = file2.read(1)    # just one byte
    if not char: break     # jump out of the loop
    print char,            # prints character followed by a space

# use a for loop : read() function will read in the
# whole file at once, but the for statement prints
# each character one at a time
print 'For loop'
for char in open('test1.txt','r').read():
    print char

# use a while loop to read the file one line at a time
# the output will still show one character per line
print 'Read line at a time'
file5 = open('test1.txt','r')
while 1:
    line = file5.readline()    # get one line
    if not line: break        # test to see of we read a line
    print line,                # without , it adds crld after each line

# read files in chunks / blocks. Here read 12 bytes at a time
print 'read blocks (size 12)'
file6 = open('test1.txt','rb')
while 1:
    chunk = file6.read(12)
    if not chunk: break
    print chunk,                # you will see a space after each block

# other examples, some read only when a line is not already in memory
for line in open('test1.txt').readlines(): print line # reads all lines at
once
for line in open('test1.txt').xreadlines(): print line # reads line as needed
for line in open('test1.txt'): print line # reads as needed

#prompt the use for a file to open and process
f = raw_input("\nExample:Prompting for a file name"
    "\n\n Please type in the path to your file and press 'Enter': ")
file7 = open(f, 'r')
while 1:
    line = file7.readline()    # get one line
    if not line: break        # test to see of we read a line
    print line,                # without , it adds crld after each line

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