

OOP Python 6/9/26

Files

- 1) Open Files to Read From (No Modification)
- 2) Open Files to Write to Them (mod. to, write into an empty file)

Open

↓ String ↗ strings
myfile = open(filename, mode)

example

myfile = open("scores.txt", "r")
↗ read mode!

myfile →

12
Bob 10000
Anna 9862
Carol 9777
⋮
2nd 5

myfile.readline()

line = myfile.readline()

line → "12\n"

line → "Bob 10000\n"

toks = line.split()

↳ returns a list of strings

toks → ["Bob", "10000"]

name = toks[0]

score = int(toks[1])

Default token separators:

' ', '\t', '\n'

Alternate separators: " , "

"Bob Adams, 10000, 3" → provide a list of
chars in a string
of each char you
want as a separator.

toks = line.split(",")

line.split(",;") → both , and ; are
separators.

toks = line.split(",")

line. split(",;") $\rightarrow$ both , and ; are separators.

DONE

DONE
myFile.close() , each time you read a line
pointer for the file moves to
the next line

EXAMPLE

best = [[10000, "Bob"], [12000, "Anne"], [3000, "Carol"],
[6000, "Ed"], [10000, "Amy"]]

Open file to write to

`new scores = open("highscores.txt", "w")`

↓ ↑
filename mode write

↓
falseness

mode write

This wipes out the old contents of the file if the file existed. $\rightarrow$ no commas like

newscores. write (STRING)

- no commas
- no multiple arguments

`newscores.close()` → when you're done.

board $\rightarrow$ { " _ _ _ x x ", " x _ x _ _ ", " x _ _ _ x ",
... }