

Chapter-10 (File I/O)

file handling allows python program to read, write, and manipulate stored on disk. Python provide a build in function to working with files.

Opening a file

python use a open() function to open a file.

Syntax

```
file = open("filename", mode)
```

↓ ↳

Name of the
file to open

specify
how the
file should
& open.

file modes

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Description

Read (default) - open file for
reading and raise error
if the file does not exist

'w'

write - open file for writing,
creating a new file if not found
and overwriting existing content

'a'

Append - open file for writing
create a new file if not found
or add content instead of over-
writing

'x'

Create - creates a new file but fails if the file already exists.

'b'

Binary mode ; used with st, lseek, etc., for working with non-text files (eg. images, PDF)

't'

Text mode (default) - used for text files (eg. crt, cat.)

Exercise: Student record manager (file-based)

- Stores student record using dictionary
- Save data permanently in file.
- Reads data back when they want

→ Input student name, age, roll number

