

## Chapter-10 (File IO)

File handling allows Python program to read, write, and manipulate stored on disk. Python provide a built-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 be open.

#### File modes

'r'

#### 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 over write existing content

'a'

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

'x'

Create - create a new file but  
fail if the file already  
exist.

'b'

Binary mode - used with sb, wb  
etc. for working with non-text  
files (eg. images, PDF)

't'

Text mode (default) - used for  
text files (eg. txt, csv)

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