

1. File I/O:

`f = open('filename', mode)`

The mode could be: `r(read)`, `w(write)`, `a(append)` ...

To write to a file: `f.write("content")`

`write` mode will override everything in the file; `append` mode will add the content after the end of the file

A complete list of mode could be found here:

https://www.tutorialspoint.com/python/python_files_io.htm

To read lines in file:

`for line in f:`

`do something on this line`

or

`f.readline()`

Close the file by `f.close()` after you finish dealing with the file.

To write and read together: `r+`, `w+`, `a+`

a. `r+` cannot override the previous stuff

b. check `w+` `a+` and see what they do

2. Read input from users

`s = raw_input("Please input: ")`

3. System related operations

Call command: `os.system(cmd)`

To save the output, might need import subprocess.

<https://stackoverflow.com/questions/4760215/running-shell-command-and-capturing-the-output>

You can deal with the file system by importing the module `os`

`os.mkdir("")`, `os.chdir("")`, ...

A more complete list could be found at:

https://www.tutorialspoint.com/python/os_file_methods.htm

4. Assignment related: OptionParser usage

<https://docs.python.org/2/library/optparse.html>

For Python 3, Argparse is recommended

<https://docs.python.org/3/howto/argparse.html>