

Python Training.....

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Agenda

- Opening file
- Reading, Writing & Seeking
- Path manipulation functions



FILE

- handle = open(<name of file>, <mode in which to open>)
 - Mode can be :
 - "r" read
 - "w" write
 - "a" append
 - "b" binary files
 - Add '+' to the mode to allow simultaneous reading & writing
- API's :- close, fileno, flush, isatty, next, read([size]), readline, readlines, seek(offset[,whence (1 current, 2 end, 0 begining]), tell, truncate, write, writelines
- Data descriptors:- closed, mode, name
- In 3.x onwards open file in "b" mode as well for seeking from current position or end



Assignments

- 1. Write a function input_stats that accepts a file name as a parameter and that reports the longest line in the file.
- 2. Write code to read a file of petrol prices in Maharashtra, Goa & Karnataka:

```
Jan 2015 81 67 84
Feb 2015 79 66 82
Mar 2015 78 65 81
Apr 2015 77 64 80
```

. . .

Output the average petrol price for each state to an output file named petrol_avg_out.txt.

- 3. Read alternate 10-10 characters of file
- 4. Write a program to parse config file.



os.path - Path Manipulation

- os.path for path manipulations
 - abspath converts to absoluete path
 - basename last component name
 - commonprefix
 - dirname
 - exists
 - expandvars
 - getatime, getctime, getmtime, getsize
 - isabs, isdir, isfile, islink symbolic, ismount
 - join
 - normcase (for windows)
 - normpath (//)
 - realpath: canonical path of the specified filename, eliminating any symbolic links
 - samefile Ture if 2 pathnames referene the same actual file
 - split returns tuple (head, taile)
 - splitext
 - walk : directory tree walk with callback function



Other File Handling Modules

- fileinput
- stat
- filecmp
- shutil
- tempfile