

CS 301 - Lecture 19

Midterm Exam 2 ^① - TODAY!

Review

Error handling {
assert
try/except

File handling

f = open("file.txt")
file object f = open("file.txt", "r")

f1 = open("file1.txt", "w")
mode

append

f2 = open("file2.txt", "a")
append
for line in f2:
 print(line)
f2.write("Hello")

②

CS 301

①

Basics of programming
variables, if/else, loop, functions

②

Data structures
Lists, dicts, tuples, objects/references,
recursion, exceptions, files

③

Data Science
pandas, ipython notebooks.
...

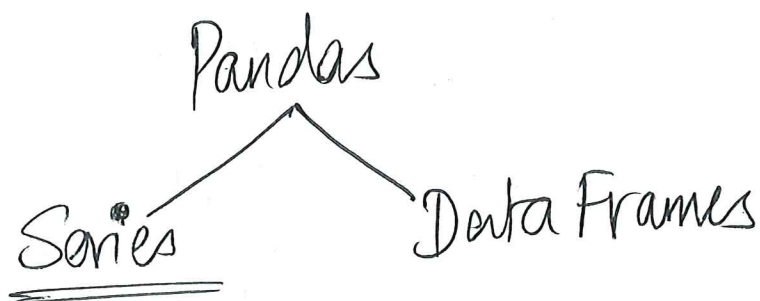
Modes of writing python

interactive mode
python console
➤➤➤

script mode
-py

Notebook
(ipython notebooks)
(code + data)

③



NaN - Not A Number.

Fancy Indexing

list: ⁰ ¹ ²
[10, 20, 30]

<u>Series:</u>	Index	Contents.
	2	100
	1	200
	0	300

(4)

<u>letters</u>		bool_series			<u>result</u>
0	A	0	<u>True</u>	→	A
1	B	1	<u>True</u>	→	B
2	C	2	<u>False</u>	→	x
3	D	3	<u>False</u>	→	x

letters[bool_series]

A, B, C, D, E, F, G, H

Review

ipython notebooks

pandas

Series

vs lists.

Data Frames