Python 3 scripts examples library

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| TOPIC | SCRIPT NAME |
| Variables, getting input from user, printing by index the strings | Input\_test.py |
| Conditionals. Using if, elif, etc. to make decisions.  NOTE: advanced challenge included in this script for consolidating keys, values from a dictionary. The advanced example also uses set. | Elif\_sample.py |
| Looping. Repetition and iterating through elements, two different ways to break out of a loop. | For\_loop.py |
| Modules, i.e., functions. Introduces a non-default range to loop in the example. | Function\_sample.py |
| Object-oriented. Classes. Dunder names (for class instance variables – name mangling vs getters & setters. A time class is also produced here as an example. A second class is used to be a tester of the first, so a class that imports another. | Time\_class.py, time\_tester.py |
| Intro to Tkinter graphics. | Tkinter\_assignment.py |
| Lists and Tuples. Two of the four collections: the others are Dictionary and Set. | List\_tuple.py |
| Dictionaries | Dictionaries.py |
| Using external files. Reading & writing, using the Shelve class feature for persistent database-type files. | Shelves.py |
| Handling exceptions with Try blocks. | Exceptions.py |
| GUIs with Tkinter. Adding components like buttons and labels. | Tkinter\_buttons\_labels.py |

GIT/GitHub docs

[Introduction to Git and GitHub for Python Developers – Real Python](https://realpython.com/python-git-github-intro/#creating-a-new-repo)