NPRG065: PROGAMMING IN PYTHON PRACTICALS 10



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- 1. Extend the Logging library from the previous practicals to use the abc module:
 - Define the Printer and Formatter "interfaces"
 - The particular implementations implement these interfaces
- 2. Change the level in the Logger class to be an enum
 - Define the Level enum with values corresponding to the severity of messages: SEVERE, WARNING, INFO, FINE, FINER, FINEST
 - The log(level, msg) method prints messages with the same or more severe level



- 3. Implement an extensible text processor
 - It reads from the std input and writes to the std output
 - It takes a list of command-line arguments with names of plugins to be applied onto the text
 - The plugins implement an "interface" with the following methods:
 - process(text) returns the processed text
 - name() a read-only property representing the name of the plugin
 - Implement several plugins such as toupper, tolower, capitalize, ...



- 4. Create an extensible shell, i.e., an interactive program performing the following commands:
 - help
 - A built-in command (the only one)
 - It prints out the list of all available commands
 - Other commands classes implementing an "interface":
 - The name of the command
 - Help (for the help command)
 - Execution of the command (taking any number of arguments)



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