## 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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