Chapter 15

Files, Streams and Object Serialization

Shell

Description

The purpose of this application is to use your knowledge of files and streams to create a command-line shell application capable of executing a few basic directory- and file-based commands.

Watch a demonstration of the application:  
  
<https://youtu.be/faTlJadIq4Q>

General Requirements

Your application must follow these general requirements

* All classes must be in a package following these rules:
  + The package name is your last name plus the first letter of your first name. For example, if you name is Rita Red, her package is “red.r”
  + Package names are all lowercase letters
* All *class* names must start with an UPPERCASE letter then camel-cased after that.
* All *property* names must start with a lowercase letter then came-cased after that.
* All *method* names must start with a lowercase letter then came-cased after that.
* Output must match the examples. Watch out for spaces and punctuation.

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***NOTE***: If the code does not compile, it’s an automatic 0!

|  |  |  |
| --- | --- | --- |
| The package name is your last name plus the first letter of your first name. For example, if you name is Rita Red, her package is “red.r” | 2 |  |
| Print welcome message | 4 |  |
| Loop displaying “prompt>” | 5 |  |
| Unknown command message | 5 |  |
| “help” command shows help | 5 |  |
| “dir” command shows pwd contents w/o path | 5 |  |
| "dir" command shows path contents w/ path | 5 |  |
| "dir" command error checks path exits | 5 |  |
| "dir" command error checks path is a directory | 5 |  |
| “show” command shows file if everything OK | 5 |  |
| “show” error checks if file parameter is missing from command | 5 |  |
| “show” error checks if file does not exist | 5 |  |
| “show” error checks that file is a file | 5 |  |
| “exit” command exits application | 5 |  |
| Print good bye message | 4 |  |
| Totals: | 70 | 0 |
| **Grade:** | **70** |  |