Github: https://github.com/TimothyJamesAitchison/BCPR301-Interpreter-Assignment

Tim

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| Feature | Used by peers | Robust | Clever | Mark |
| Line-oriented cmd | Hasitha: scatterplot graph | For the graphing commands, it checks that is successfully got data from db before passing it to the view | Uses mvc architecture where it acts as a controller between the model(filehandler) and view | 5 |
| Display command line help of available commands | Rosemary: “linegraph” command  Hasitha:  “line” command | If the command is not found in helpfile it consumes the “command doesn’t exist” result and displays “couldn’t load help from helpfile” instead | Loads help from text file rather than hardcoded | 6 |
| Change commands and options | Hasitha:  Multiple validator methods  Rosemary:  Multiple validator methods | If a key is missing from the rules.txt file, it catches the keyerror exception and prints the missing key to standard error | Loads sets of business rules from file | 6 |
| Validate data | Hasitha in csv loader | Checks the format of the data before pulling it apart to check piece by piece | Keeps business rules as attributes of class so they are all in one place, and follows open-closed because in future we can write setter methods to change them if needed. | 5 |
| pickle | Hasitha in command line args | Uses try/except to handle whether the pickle file exists yet or not | Uses pickle file to remember whether we have made a database yet or not | 5 |
| Load data from file | Hasitha in scatterplot graph | File opening in try/catch  Checks format of data before splitting avoids indexing exception | If file invalid, provides exactly what was invalid to standard error | 5 |
| Can raise exceptions and provides exception handling | Rosemary in check\_id  Hasitha in check\_gender  For if the data being checked is of unexpected type | Uses try/except blocks wherever an exception may be found | Prints descriptive error messages to standard error whenever an exception is caught | 6 |
| Apply error trapping & handling | Hasitha importerror in pygal  Rosemary importerror in pygal | On some computers they don’t get lxml installed even after importing pygal so it makes an error when you try and use render in browser so I added a try/except to handle this situation | Gives an error message to standard error to say what happened if the graph can’t be displayed. | 6 |
| Provide doctests | Hasitha in csvloader Rosemary in validator | Doesn’t make exceptions | 46 doctests | 6 |
| Provide unittests | Hasitha in validator  Rosemary in validator | Doesn’t make exceptions | 41 unit tests | 6 |
| Breadth of test coverage | Hasitha in csvloader, validator  Rosemary in validator | Doesn’t make exceptions | 87 tests | 6 |
| Pretty print, i.e., displaying data in bar chart, pie chart, etc. |  | Catches exception if the data provided is wrong format  Also checks that the data is right type and skips data of wrong type | Bar graph can work for any (numerical) type of data, not hardcoded to one field of the database | 4 |
| Can save and read data from a database | Hasitha in scatterplot, csv reader  Rosemary in scatterplot, excel reader | Opens connection only when needed and closes again when done, catches exception if database connection fails | Gets which database to use from command line argument so can be switched.  Uses string formatting to build sql queries. | 6 |
| Total |  |  |  | 72 |

Hasitha

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| Feature | Used by peers | Robust | Clever | Mark |
| Command line args | Tim in DatabaseHandler | If no arguments given has default value, try-except to protect from indexError | Uses argument for both pickle filename and database filename | 5 |
| Validate data |  |  |  |  |
| Provide unittests |  |  |  |  |
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Rosemary

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| Feature | Used by peers | Robust | Clever | Mark |
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