**Text Analyzer – Objects**

**Interfaces**

* Interface ConsoleMenus: Responsible for handling user prompts and inputs in the console
  + void dispPrompt(): Displays a prompt in the console
* Interface Analyzers: Responsible for reading the file and collecting statistics
  + void readFile(File file, Scanner fileReader): Opens and reads a given file
  + <K,V> HashMap<K,V> collectResults(): Collects and stores results as a HashMap while the file is read
  + <K,V> void analyzeResults(HashMap<K,V> collectedResults): Performs calculations on the collected results to prepare them for presentation
* Interface Parsers: Responsible for setting the rules for determining what text is valid to pass on to the analyzer
  + <T> boolean isValid(T tryT): Applies a set of rules to determine if tryT is valid

**Classes**

* Implements Parsers
  + Class Parser: Generic parser to be applied to any text document; no special rules are applied
    - Class HTMLParser: Parser to be applied to HTML documents; applies rules to ignore all text within HTML tags and to only read text inside <H#> and <P> tags
* Implements Analyzers
  + Class WordCounter: Analyzer that reads a document and returns the number of times each word is used and sorts the results from greatest occurrence to least
* Implements ConsoleMenus <T>