README FILE

ATU - Dept. Computer Science & Applied Physics
Advanced Object-Oriented Software development
Multithreaded Indexing API
G00299043

Description:
The main function of the programme is that it can read and parse any text file specified by the user. It can read in every word in the file using virtual threads and create an index for the text file. The user then specifies the dictionary.csv file from project folder and google-1000.txt file from project folder. this provides words and definitions for words from text file and common words to be ignored. Once executed the index prints words and definitions to console and text file path specified by user.

Runner Class:
Location of main method to start application

Menu Class:
Includes 2 switch statement for menu operation and processFile method. Execute method for processing of files and Menu options and progress bar also included

TextParser Class:
Implements Parser Interface. Contains Parse file method for files, processLine method for lines in files and add method to clean word and add to index.
Also has print() method to print to index

FileParser Class:
Implements Parser Interface. Contains Parse file method for files, processLine method for lines in files and add method to clean word and add to dictionary(word, def)
Also contains searchDictionary method, parseStopWords method

WordDetail Class:
This contains data structure for index. 2 wordDetail constructors for definitions and page numbers. Add method for page numbers, and toString method to create string representation of wordDetail object

Indexer Class:
Contain Indexer constructor for parsing into hash map. addToIndex method to clean and trim word, search dictionary and add word. getIndex method to return index and printIndex method.

Writer Class:
Includes save Method to print index to file on user specified file path.

Parser Interface:
Specifies parser methods for FileParser and TextParser (parseFile(), processLine() and add())

ConsoleColour Enum:
Contains constant colour variables for console text