**Program Description:**

**ParseURL.java:**

* This is the main function of the program. All the user inputs are handled in this class.
* After user specifies the location of the input file, it is validated and passed as an argument to the parseInputFile function.
* parseInputFile function takes the input file and parses it to extract only the URL’s and returns a String array urlfinal with the extracted list of URLs.
* An object for ManageThreads class is created to initialize the constructor with 20 threads.

**ManageThreads.java:**

* A threads array is initialized with respect to the number of threads.
* A range of URLs are taken based on the length of the urlfinal array and the number of threads. Its passed as the arguments to initialize the constructor whenever a new thread is created.
* All the threads are started to begin the search.

**Search.java:**

* Start and end range of the URLs to be accessed by the thread is initialized along with the Search terms SearchTerm1 and SearchTerm2 that need to be searched.
* Run method is implemented that uses Jsoup library to connect with the URL and parse the body to search for the search terms mentioned by the user.
* A regular expression to search for either of the search terms specified by the user is implemented.
* A Pattern object is created to called matcher method to find if the one of the search terms exists on the page.
* If either of these two search terms are available on the page, the URLs are written to the output file “results.txt”.

**Note:** Some of the URLs could not be accessed due Socket exception. Excluding those URLs, all the other URLs that match the given pattern are written to the **“results.txt”** file.