



Ministry of Education of Republic of Moldova

Technical University of Moldova

Faculty of Computers, Informatics and Microelectronics

Software Engineering Department

Web Programming

Laboratory work #2

SELF-MADE BROWSER

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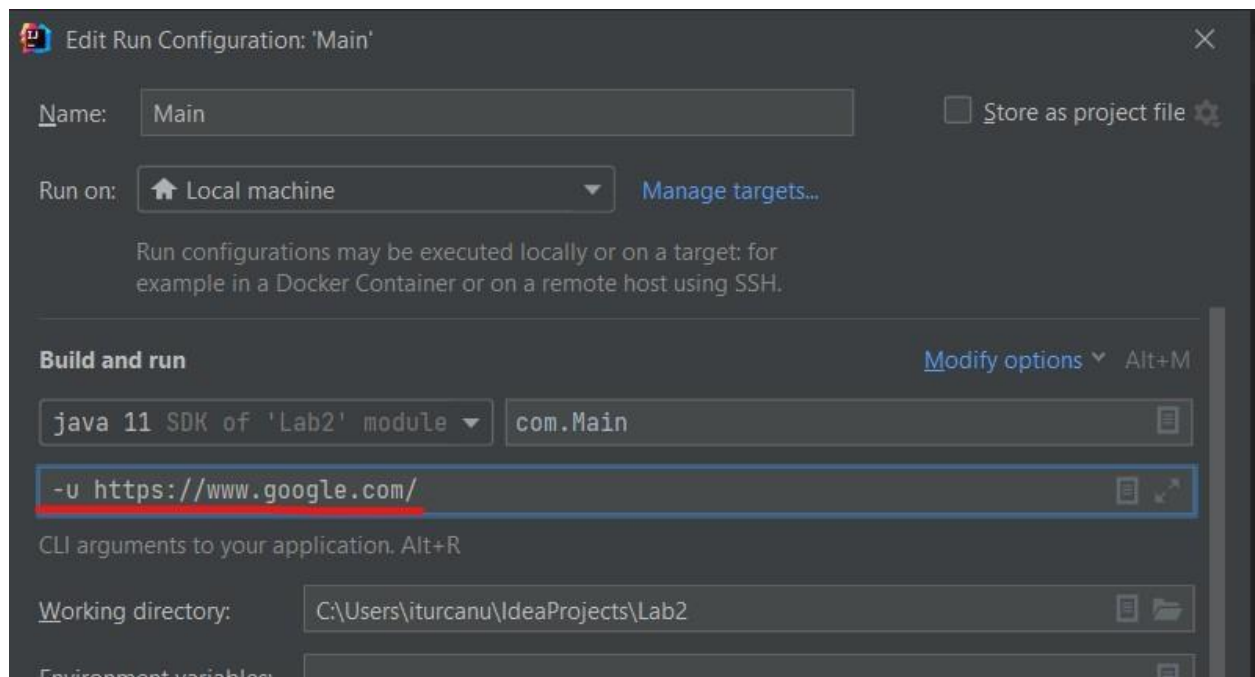
Task

Your task for this lab is:

- You have to write a command line program, using go2web as a starting point; •
The responses from requests should be human-readable (e.g. no HTML tags in the output);
- The program should implement the following CLI:
 - go2web -u <URL> - make an HTTP request to URL and print the response;
 - go2web -s <search-term> - search the term using your favorite search engine and print top 10 results
 - go2web -h - show help

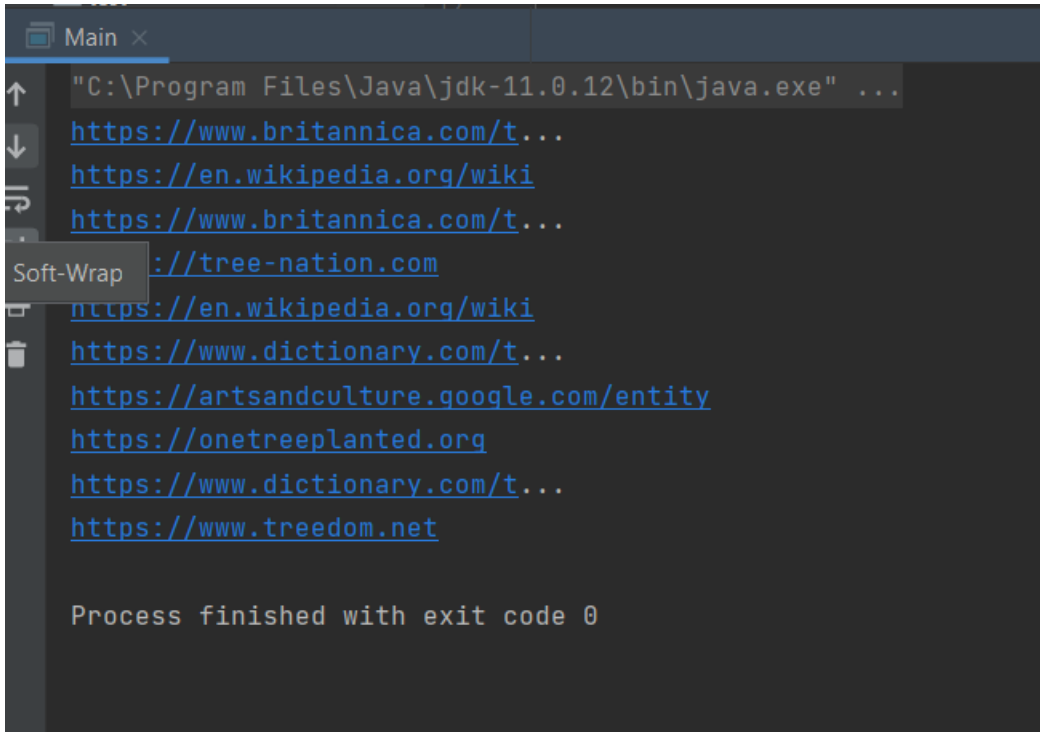
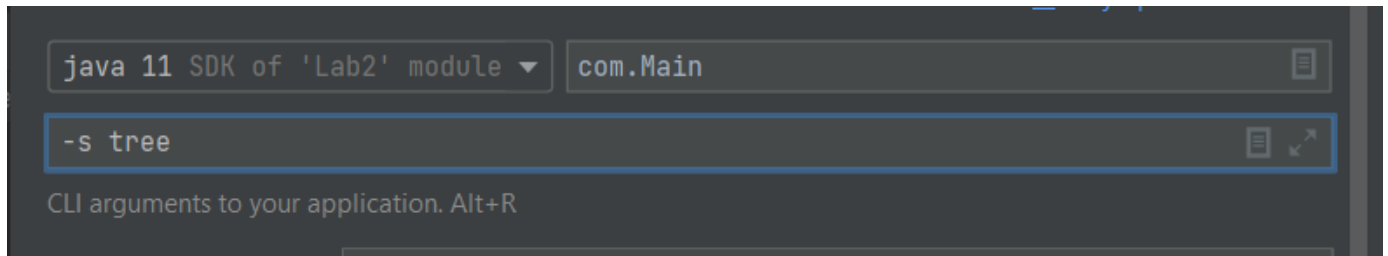
Results

I have chosen Java as a programming language and maven for importing libraries. To extract the html out of the response I used jsoup library.

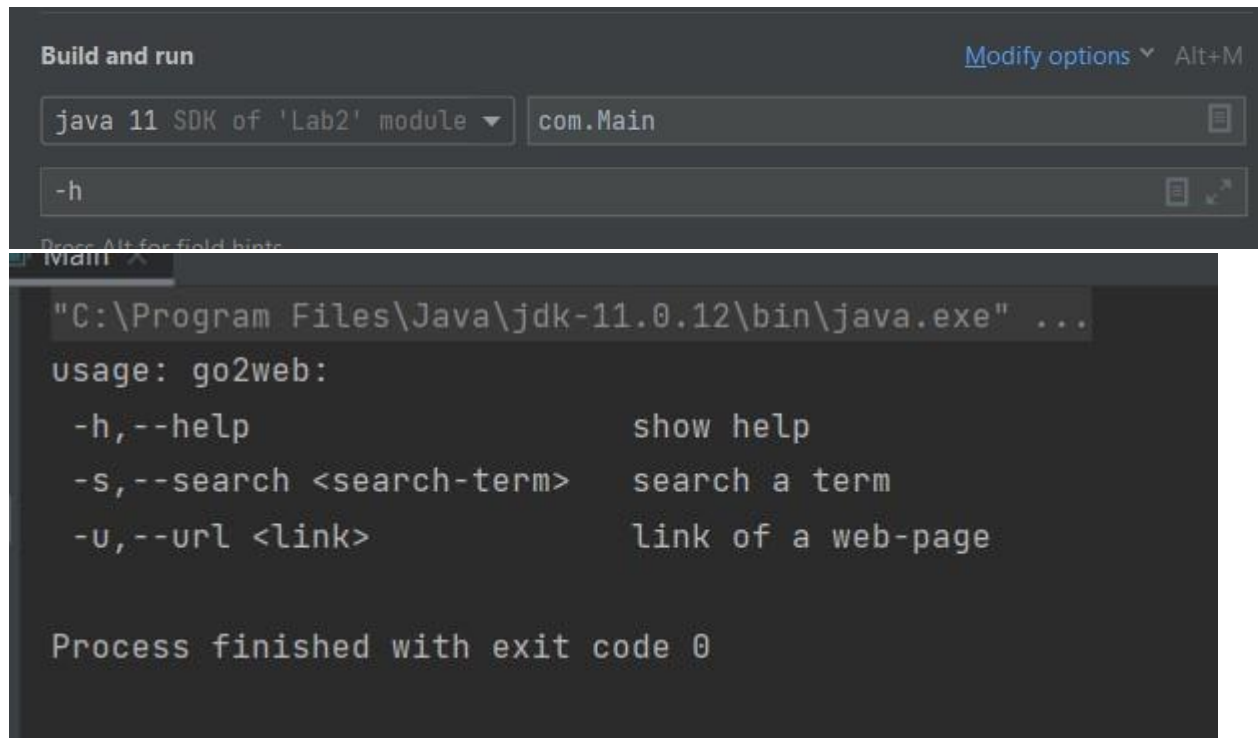


Here is the result:

For the second command I used also jsoup library to parse links from html.



Help command:



The image shows a screenshot of an IDE's 'Build and run' configuration window and a terminal window. The 'Build and run' window has a title bar 'Build and run' and a 'Modify options' button with a dropdown arrow and 'Alt+M' shortcut. It contains two input fields: the first is 'java 11 SDK of 'Lab2' module' with a dropdown arrow, and the second is 'com.Main' with a file icon. Below these is a third input field containing '-h' with a file icon and a 'Run' button. A tooltip 'Press Alt for field hints' is visible near the first field. The terminal window below shows the command prompt output: `"C:\Program Files\Java\jdk-11.0.12\bin\java.exe" ...`, followed by `usage: go2web:` and a list of options: `-h,--help` (show help), `-s,--search <search-term>` (search a term), and `-u,--url <link>` (link of a web-page). At the bottom, it says 'Process finished with exit code 0'.

```
Build and run Modify options ▾ Alt+M  
java 11 SDK of 'Lab2' module ▾ com.Main 📄  
-h 📄 ↵  
Press Alt for field hints  
Main ✕  
"C:\Program Files\Java\jdk-11.0.12\bin\java.exe" ...  
usage: go2web:  
-h,--help          show help  
-s,--search <search-term>  search a term  
-u,--url <link>      link of a web-page  
  
Process finished with exit code 0
```

3 Conclusion

After doing this lab I learned how to interact with java commons cli library, created my personal options, however, the biggest challenge was to run program from terminal, due to the fact that I used Maven, target jar was difficult to execute manually, that's why I stucked to passing options in IDE.