

Word Chaining

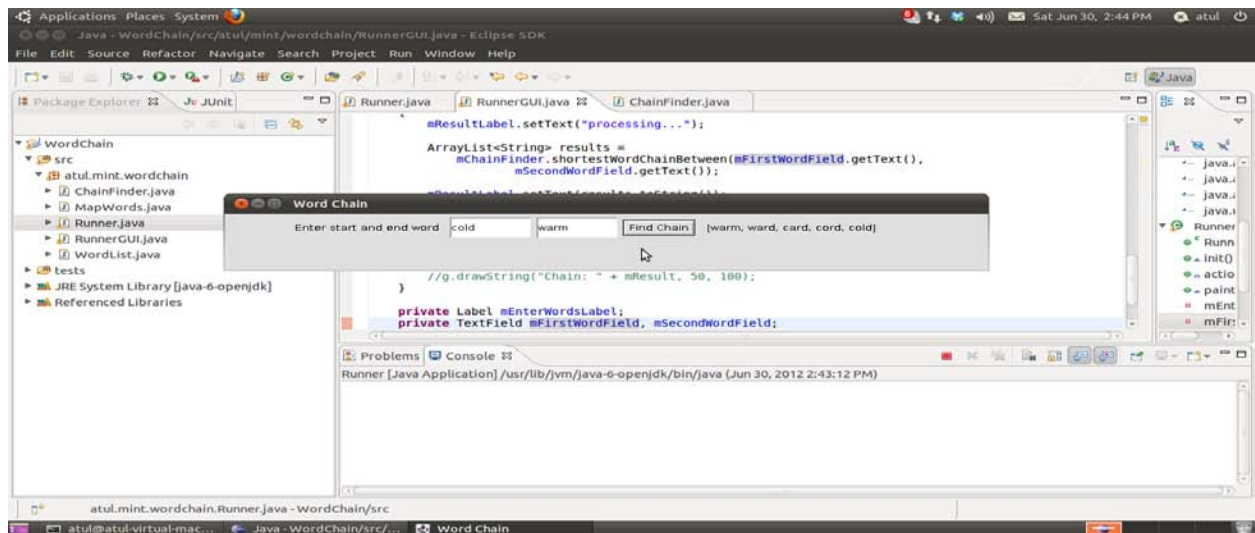
Specs - Eclipse Europa project with applet to run the program.

Testing - JUnit 4 (Takes some time to run the test)

Running - Starting the applet may take some time as it loads the dictionary and creates the map. Once loaded the results are computed pretty fast

1. Enter the first word in first text box and second word in second box
2. Click on the button

Results - Here is how the applet looks like



How it works - Uses minimum path algorithm (Dijkstra's)

Step 1 - Load the dictionary

Step 2 - Group the words with respect to their length

Step 3 - Create a map of key value where keys are the words and value is a list of words which differ by one character

Step 4 - For the first word, get the value from the map and add these to the list of words

Step 5 - For all the values of word one, get corresponding values for these keys from the map

Step 6 - Use list of words to get the corresponding minimum path

Thanks