Gabriel Chetty

UCT  CPT

CSC2001 Assignment 1 report

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**OO Design**

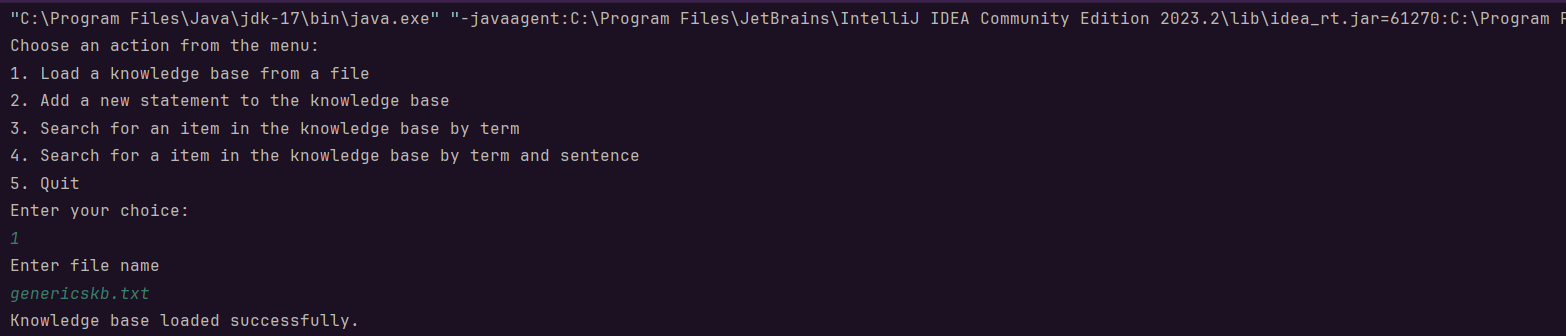
I’ve created a total of 5 classes:

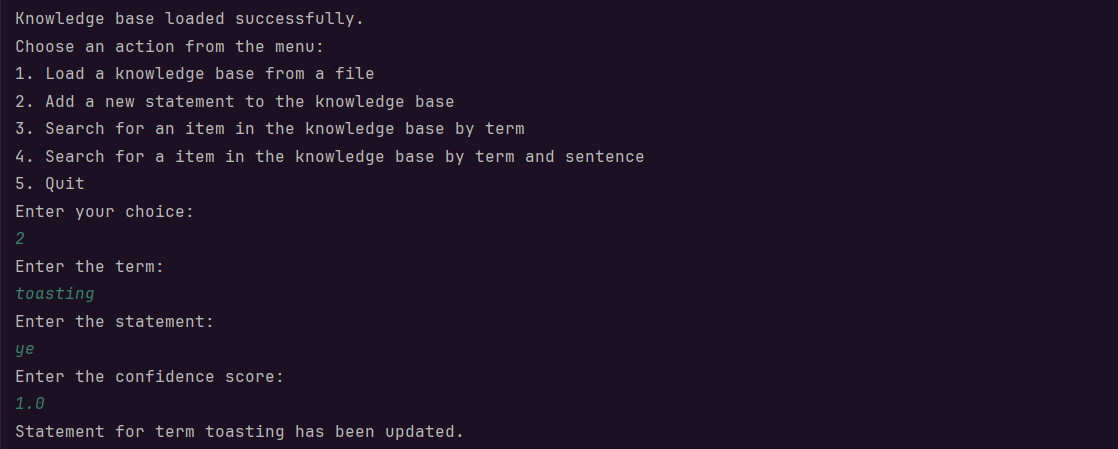
* GenericsKbArrayApp
  + GenericsSearch
* GenericsKbBSTApp
* GenericBinaryST
* TreeNode

GenericsKbArrayApp and GenericsKbBSTApp are the main functions for the array and bst respectively. GenericSearch contains the search methods, getIndex, as well as a get Confidence and fullSearch method.

TreeNode class contains the nodes , left and right and the data stored in them. GenericBinarySt consists of the search function as well as its helper, the insert function, the Traversal function, similar search function, delete function, min function (helps delete) and searchfull function as well as all their helpers. TreeNode provides the nodes for GenericBinaryST to work with.

**Array App:**

Case 1:

Case 2:

A screenshot of a computer

Description automatically generatedCase 3:

:

A computer screen shot of white text

Description automatically generatedCase 4:

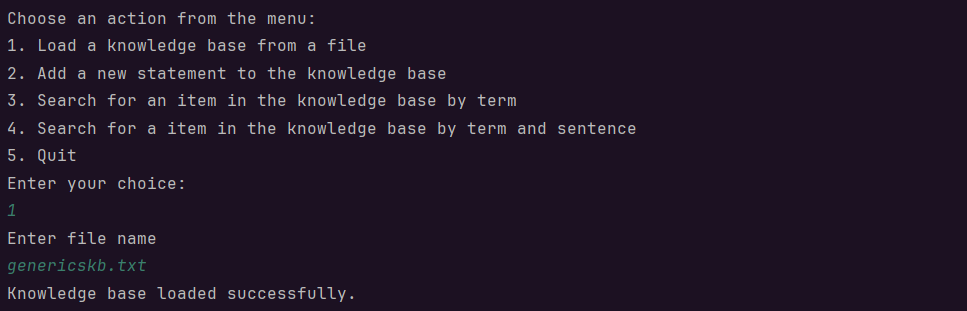
Case 5:

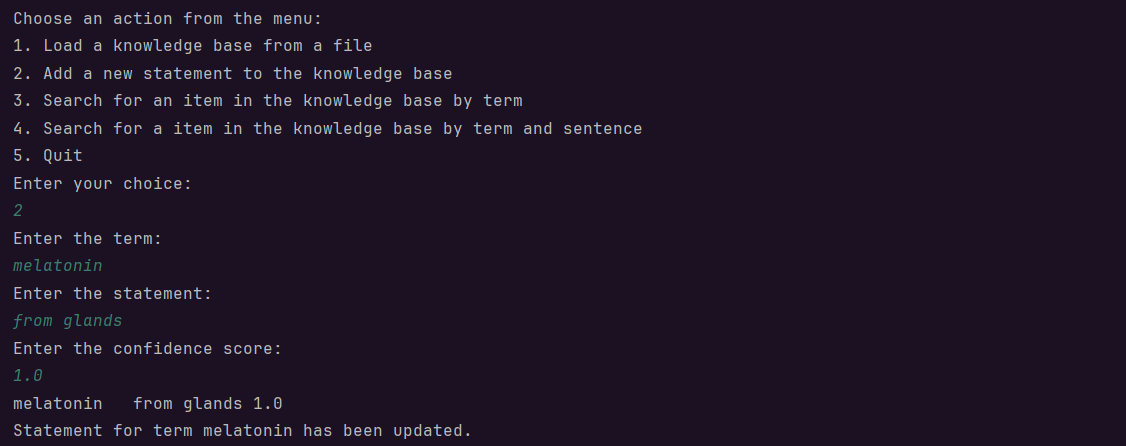
**A screenshot of a computer

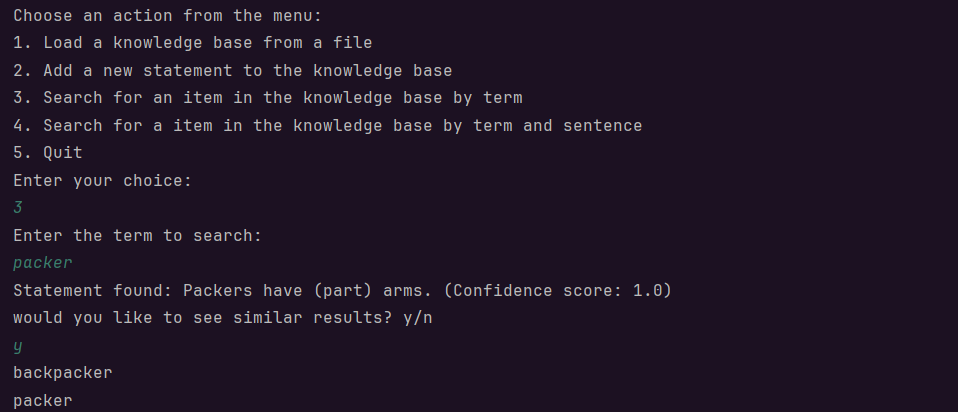
Description automatically generated**

**BST App:**

Case 1:



Case 2:

Case 3:

A computer screen shot of a computer

Description automatically generatedCase 4:

A computer screen shot of a black background

Description automatically generatedCase 5: