

**DUE:** TBD

**POINTS:** 25

**PURPOSE:** To review Java by writing a Java application that permits data lookup.

**DESCRIPTION:** Write an application that reads and stores a table of data for your selected data, and permits the user to look up data from that table.

Create a table by following the example **ReadWeb\_2023.java**, available on the web and on acad. Substitute a URL for your chosen data and send the data to a file (ReadWeb prints it on the screen).

Inspect the table you created and devise a method to read it in its raw form, keeping in mind that we will later store its data, and that of several others, in an Oracle database.

Design a graphical user interface that permits the user to input a query and outputs the data requested. Since everyone is doing their own data, make sure that everything is well labeled, including enough description of what data is available. Input may not be via text field nor button; use components analogous to ComboBox or RadioButton, or other as you see fit. Your output should be well labeled and appear in an appropriate component.

### Notes:

- Data is to be output using ordinary formats. If in doubt, ask.
- We will eventually query the web site to obtain this and several other tables. Be meticulous in writing your methods for reading the table data.
- This project will be repeated using servlets and JSP, and likely some scripting and AJAX. Be very modular.
- If you use Java, you must specify a layout, even if it is null. No FlowLayouts. Your application will be run outside an IDE, using java.exe Version 17 on my PC. acad uses Version 15.
- You are required to create a Javadoc or similar site. See AcadWebArea.pdf on the CSc 521 web page. We can further discuss this.
- Create a readme file that describes design decisions, etc; In addition to at least a brief narrative regarding your design, this file **MUST** contain:
  - A link to your Javadoc site. It is not required to be on acad.
  - Samples of available queries.
  - Bug report if there are any queries that don't work or other issues to report.
    - Better you report them than I find them.

**Turnin:** Your java code, file Info.java (Name your main class Info). Turn in a readme on D2L that describes design decisions, etc;