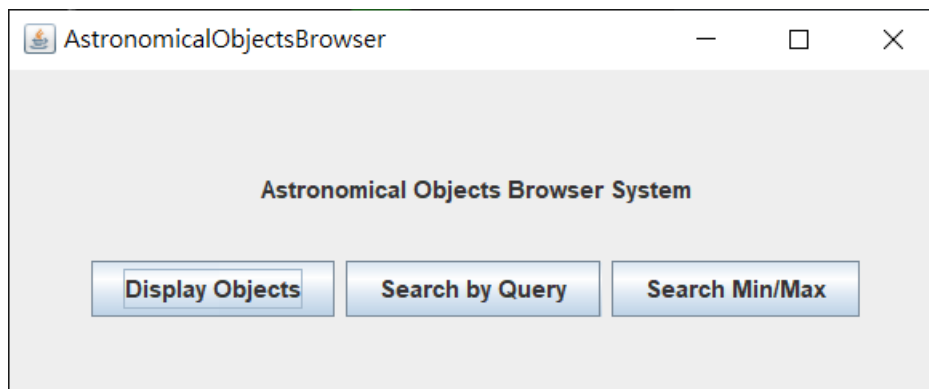


b. Screenshots illustrating

1) Browser main menu



2) Frame for "Display Objects" button in main menu



3) Frame for buttons in picture 2 (Take "Stars" as an example, another two have same format with it).

A screenshot of a window titled "StarObjects". The window has a standard Windows title bar. The main content area has a light gray background and contains the text "2678 star objects are founded:" above a table. The table has 7 columns: ID, Ra, Declination, Magnitude, Distance, Constellation, and Type. The table is scrollable, and the first 12 rows are visible. The table data is as follows:

ID	Ra	Declination	Magnitude	Distance	Constellation	Type
88	0.26916	-48.809859	5.71	543.3	Phe	G
122	0.399379	-77.065294	4.78	220.3	Oct	M
145	0.455989	-3.027479	5.13	407.5	Psc	K
154	0.489965	-6.013972	4.37	412.7	Psc	F
171	0.540188	27.084489	5.8	40.4	Peg	B
183	0.582976	-29.720448	5.04	509.4	ScI	M
194	0.623989	8.485579	5.7	123.0	Psc	B
301	0.934885	-17.33597	4.55	228.0	Cet	F
330	1.056932	62.287665	5.9	3622.2	Cas	G
355	1.12551	-10.509494	4.99	1630.0	Cet	B
443	1.333941	-5.707833	4.61	128.3	Psc	A
476	1.424732	13.396282	5.55	370.5	Peg	K

4) Frame for "Search by Query" button in main menu. "Add query" to add query

into the following table. “Update” can update query that is chosen. “Delete” will delete the query is chosen. “Search” will search all queries that are in the “Added Query” table.

SearchByQuery

Query:

Added Query:

Query
select messiers where ra < 40
select stars where ra < 400 ra > 40
select stars where distance > 300
selekt messiers where ra > 40
select messiers where distance = 60000000.0
select planets
select stars where ra > 60 and ra < 90 and decl < 10 and decl > 0

Delete **Search**

- 5) Frame for “Search” button in picture 4. The ID lists can be viewed by selecting a query.

QuerySearchResults

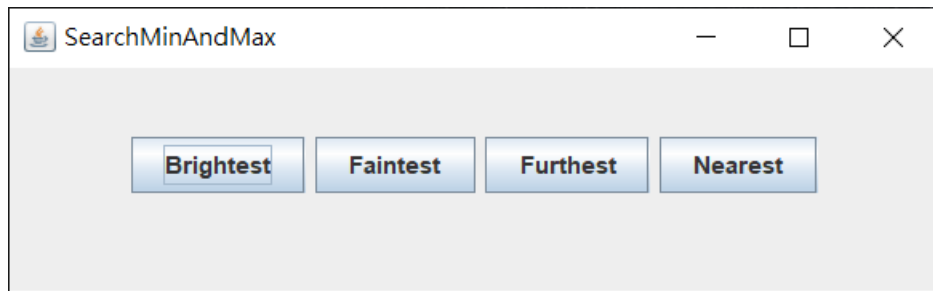
Summary:

Query	Result
select messiers where ra < 40	7
select stars where distance > 300	1337
select messiers where distance = 60000000.0	16
select planets	8
select stars where ra > 60 and ra < 90 and decl < 10 and decl > 0	34
select stars where ra < 400 ra > 40 has a wrong format.	error
select messiers where ra > 40 has unknown keyword: selekt	error

Result lists:

ID
M31
M32
M33
M74
M76
M103
M110

- 6) Frame for “Search Min/Max” button in main menu



7) Frame for buttons in picture 6 (Take “Faintest” as an example, others have same format with it).

