The way I approached this homework assignment is to first see if there are any patterns that are unique to the types of ships. After analyzing the pattern that the homework provided us, I found these patterns.

%-------------------------------------------

% Characteristics of each ship type

%-------------------------------------------

% ------Klingons-------

% Warp Drive Vibration Index is greater than 6.9

% Every ship but Glorek has a long to short axis greater than 2.8

% Glorek is an Antarean ship that's been taken over

% has a transponder freq between 978 to 1010

% Every ship name for Klingons have a consonant for the first two letters

% ------Romulan---------

% Has a transponder freq below 981

% Has warp drive vibration above 7.2

% shares this trait with Klingons

% ------Antarean--------

% Has a Transponder freq above 1010

% One Antarean ship (A0199) has freq of 1066

% Has ratio of long to short axis between 1.0 to 1.2

% The names start with either A or E

% ------Federation------

% Has a transponder freq above 1045

% Ratio of long to short axis is above 1.7