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% The main script gives the user a set of options. The user then works
% his/her way through the interface giving the required input when needed %
% Input: The user's choice of option (and a csv file if first option is %
용
       selected)
% Output: None
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% Define menu items
menuItems = {'Load new data', 'Check for data errors', 'Generate plots',
'Display list of grades', 'Quit'};
% Allocates variable for filename
filename = '';
% Asks the student to input a file of type .csv
prompt = 'Please input a .csv file ';
filename = inputdlg(prompt, 'Input file', [1, 50]);
while true
   % Returns to main if cancel is selected
   if size(char(filename)) == [0,0]
      file = '';
      break
   % Creates error message if ok is selected without an input
   elseif size(char(filename)) == [1,0]
                                                             ', 'Error'))
      uiwait (msgbox ('Error: Empty input
      filename = inputdlg(prompt, 'Input file', [1, 50]);
   % Creates error message if the input cannot be found in the directory
   elseif exist(char(filename)) == 0
      uiwait(msgbox('Error: File doesn't exist in the current directory', 'Error'))
      filename = inputdlg(prompt, 'Input file', [1, 50]);
   % If no errors occur the file is loaded and displayed
   else
      file = filename{1};
      Table = readtable(file);
      [N,M] = size(Table);
      fprintf('There are %0.0f students in the table\nThere are %0.0f assignments in the
             table\n', N, (M - 2))
      disp(Table);
      break
   end
end
while true
   % Display menu options and ask user to choose a menu item
   choice = menu('Menu', menuItems);
§______
                        Load new data
§______
   if choice == 1
      run main.m
```

return

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                       Check for data errors
   elseif choice == 2
       % Creates error message is no file has been loaded
       if isempty(file)
           uiwait(msgbox('Error: No file loaded'))
       % Runs function if file has been loaded
           Table = errorClear(file);
       end
                           Generate plots
   elseif choice == 3
       % Creates error message is no file has been loaded
       if isempty(file)
           uiwait(msgbox('Error: No file loaded'))
       % Runs function if file has been loaded
           grades = Table{:, 3:width(Table)};
           gradesPlot(grades);
       end
                       Display list of grades
elseif choice == 4
       % Creates error message is no file has been loaded
       if isempty(file)
           uiwait(msqbox('Error: No file loaded'))
       % Runs function if file has been loaded
       else
           displayListOfGrades(Table);
           disp(displayListOfGrades(Table))
       end
                            Quit
   elseif choice == 5
       % Clears workspace, closes all windows, breaks loop and closes program
       close all
       clear
       break
   end
end
```