Contents

```
function PS07_nav_exec_fu194
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 132
% Program Description
% using GUI imput loction name, longtitudes and latitudes of 2 place, show
% great circle distance and rhumb line distance in another window
%
% Function Call
% PS07_nav_exec_fu194
%
% Input Arguments
% none
%
% Output Arguments
% none
%
% Assignment Information
%   Assignment:        PS 07, Problem 2
%   Author:            Yuefan Fu, fu194@purdue.edu
%   Team ID:           001-05
%       Contributor:          Name, login@purdue [repeat for each]
%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

```
%get 6 parameters returned from the GUI
[startStr,latStart,lonStart,finalStr,latFinal,lonFinal]=BACS_inputCoords;
```

CALCULATIONS

```
%using the longtitudes and latitudes calculate great circle distance and rhumb line distance
[gcDis,rlDis]=PS06_nav_distances_fu194(latStart,lonStart,latFinal,lonFinal);
```

FORMATTED DISPLAY

```
%call BACS_dispDists to create another GUI to show the calculation result
BACS_dispDists(startStr,finalStr,gcDis,rlDis);
```

ACADEMIC INTEGRITY STATEMENT

I/We have not used source code obtained from any other unauthorized source, either modified or unmodified. Neither have I/we provided access to my/our code to another. The project I/we am/are submitting is my/our own original work.