```
% table = table of optimized solution
   % desired loop gain: input from user in main life script to determine
   % the upper and lower horizontal lines.
   % Return
   % displayed scatterplot graph
   function create graph(disp table, loop gain desired)
       % variables to hold the upper and lower line values
       upper line = loop gain desired*1.1;
       lower line = loop gain desired*.9;
       % Create scatter of table.Cost and table.Gain
       scatter graph = scatter(disp table, "Cost ($M)", "Gain (dB,dBW)");
       % Add xlabel, ylabel, title, legend and lower and upper gain lines
       xlabel("Cost ($M)")
       ylabel("Gain (dB,dBW)")
       title("Gain vs. Cost")
       yline(upper line, '-.g')
       yline(lower line, '-.g')
   % Customizing data tips
       dcm = datacursormode(gcf);
       set(dcm, 'UpdateFcn', @(src, event obj) customDataTip(event obj, ∠
disp table));
       datacursormode on; % Turn on the data cursor mode
       % Inner function for custom data tip text
       function txt = customDataTip(event obj, disp table)
           pos = event obj.Position;
           % Find the index (row number) of the closest point
           distances = hypot(disp table.("Cost ($M)") - pos(1), disp table.("Gain♥
(dB, dBW)") - pos(2));
           [~, row] = min(distances);
           % Create the data tip text
           txt = {['Solution: ', num2str(row)], ...
                  ['Cost ($M)', num2str(disp table.("Cost ($M)")(row))], ...
                  ['Gain: ', num2str(disp table.("Gain (dB,dBW)")(row)), ' dB, ✓
dBW']};
       end
       end % t output graph function
       function saveFile(disp table)
           list parameter names = ["Number of Styles"; "Minimum Transmitter Styles"; "
"Minimum Recievers Styles"; "Minimum Quantity"; "Maximum Quantity"; "Minimum Diameter";" ¥
Max Diameter"; "Minimum Power" ; "Maximum Power"; "Year to be Built"; "Include ∠
```