Procedure Log for Assignment 13 - Customizing the ArcMap Interface

Problem: Create two custom toolbars, including a custom drop-down menu and a button for an add-in, add a tool to the layer context menu, and populate an attribute table using the add-in functionality.

Procedure Log:

Data: Data provided by NCSU GIS 520 from Chapter 6: Customizing the interface of *GIS Tutorial 3*.

CityOfOleander.mdb: database containing library, police, property, and sample layers, city limit boundary (line), regional cities (polygon), and tables for property information, tax information, etc.

Projection: The data are projected in NAD 1983 State Plane Texas North Central FIPS 4202 (Feet)

Add the Continuous Zoom and Pan tool to the main menu next to the Zoom and Pan tools.
Customize > Customize Mode > Commands > Pan/Zoom category
Drag the Continuous Zoom and Pan tool to specified area of the main menu.
Result/Output: Continuous Zoom and Pan tool in the main menu next to the Zoom and Pan tools

Add the Select Features tool to the menu next to the Clear Selected Features button.
Customize > Customize Mode > Commands > Show commands containing > Select Features
Drag the Select Features tool to specified area of the main menu.
Result/Output: Select Features tool in the menu next to the Clear Selected Features button

Make the Select Features tool a menu group by itself.
Target: Select Features button
Right-click > Begin a Group
Result/Output: Bar placed between the Select Features and the Clear Selected Features buttons

Create a custom toolbar of tools commonly used by staff of the city of Oleander.
Customize > Customize Mode > New … > Oleander
Undock new toolbar.
Commands tab (Customize window) > Editor Category > Add the following tools: Save Edits, Start Editing, Stop Editing, Use Snapping
Right-click each tool > Image and Text
Result/Output: Oleander toolbar

Add a drop-down menu to the Oleander toolbar containing data view and layout view buttons.
Target: Oleander toolbar

Customize > Customize Mode > Commands > New Menu > Drag to Oleander toolbar
Right-click New Menu > Name > Select View
Customize > Customize Mode > Commands > View category > Add the following tools to the dropdown menu: Data View, Layout View
Result/Output: Oleander toolbar contains custom drop-down menu with buttons to change view

Customize the layer context menu to include Open Table Showing Selected Features tool below Open Attribute Table.
Customize > Customize Mode > Toolbars > Context Menus
Context Menu Toolbar > Feature Layer Context Menu
Customize > Customize Mode > Commands > Layer category > Drag Open Table Showing Selected Features tool to the specified location on the layer context menu
Result/Output: Open Table Showing Selected Features tool below Open Attribute Table in layer context menus

Create a custom editor toolbar with specified tools.
Customize > Customize Mode > New … > Fast Edits
Undock new toolbar.
Commands tab (Customize window) > Editor Category > Add the following tools: Save Edits, Edit tool, and Rotate Tool
Commands tab (Customize window) > Advanced Edit Tools Category > Add the Curve Calculator tool
Result/Output: niemuth_j_Tutorial6.mxd

Add fields to the Police Districts feature layer as directed.
Target layer: Police Districts
Open Attribute Table > Table Options > Add Field > XCenter, double
Table Options > Add Field > YCenter, double
Result/Output: Two new unpopulated fields within the Police Districts feature layer

Install the EasyCalculate Add-in.
Download from: http://resources.arcgis.com/gallery/file/arcobjects-net-api/details?entryID=7268CB37-1422-2418-883E-D01A60E7975E
Unzip/extract and install the add-in.
Result/Output: EasyCalculate installed

Add EasyCalculate to the toolbar.
Customize > Customize Mode > Commands Tab > Add-In Controls Category > Add the Run EasyCalculate 10 tool to the Oleander toolbar
Result/Output: Run EasyCalculate 10 button included on Oleander custom toolbar

Use the add-in to calculate X values for Police Districts polygon centroids.
Target layer: Police Districts
Tool: EasyCalculate
Select a Category: Geometry

Select and Expression: polygon_Get_X_Center
Select a Feature layer: Police Districts
Select a Field to populate: XCenter
Result/Output: X value polygon centroids are populated for Police Districts

Use the add-in to calculate Y values for Police Districts polygon centroids.
Target layer: Police Districts
Tool: EasyCalculate
Select a Category: Geometry
Select and Expression: polygon_Get_Y_Center
Select a Feature layer: Police Districts
Select a Field to populate: YCenter
Result/Output: Y value polygon centroids are populated for Police Districts