Assignment 5

CS321 Winter 2023, Professor Christopher Diggins

Create a Windows form application with a Picture control and several other controls.

Allow the user to click anywhere and draw a shape of your choice (like an Ellipse or Rectangle). While the user moves the mouse the shape should be updated. When the user lets the mouse button up complete drawing the shape. If the user presses the right mouse button, cancel drawing the shape.

Add a menu item “Test” that will draw 5 shapes in random positions:

For reference see the following function documentation and example code:

* <https://learn.microsoft.com/en-us/dotnet/api/system.windows.forms.painteventargs>
* <https://learn.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscree>

Add a menu item “Undo” that will undo the last drawn shape.

Add UI controls to the form for changing:

* The outline color
* The stroke width
* The type of shape
* The fill color
* Whether the shape is filled or not.

Grading:

* 10 Points – does what is asked
* 5 points – code is good quality and follows style conventions - <https://learn.microsoft.com/en-us/dotnet/csharp/fundamentals/coding-style/coding-conventions>