

Programming Logic - Beginning

152-101

State Information Program

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| 20 points |
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Create a program that displays state information based on the following criteria:

The program will display the name of the state and its capital when the button with the state abbreviation is clicked. To keep the buttons to a minimum, only include those states that border Lake Michigan and Lake Superior.

Program Design Requirements

1. User Interface Design
2. Controls, Names and Properties list

Program Requirements

- Name form controls appropriately
- Align form controls appropriately
- Use appropriate spacing to improve program readability
- Provide appropriate in-line documentation

Change the form's background color and foreground color.

Use separate labels to display the name of the state and the state's capital.

The program's name should be *State Information*. Display this in the form's title bar.

Include a graphic image (from any source). All pictures and images must be business appropriate (you should be able to show them to anyone without offending someone!)

Include a button for each state with the abbreviation of the state as the text on the button. The buttons should appear on the top portion of the form, put the result labels in the lower middle portion and include a button on the bottom to close the application.

Submit the design work in class on due date.

Submit the entire solution folder on due date, to the I: drive in your folder within the Programming Logic Beginning class folder.

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Program Evaluation Form Name: _____

State Information (20 points):

Screen Layout

- (1 point) Descriptive Labels identify output results
- (1 point) Six buttons, one for each state, one to close
- (1 point) Form has a title
- (1 point) Flow of the form is logical (layout) and consistent
- (1 point) Common controls grouped
- (1 point) Form was designed using Visio/Word or hand drawn

Controls, Names and Properties List

- (1 point) All controls from screen layout are listed
- (1 point) Valid control names
- (1 point) Values are listed for Controls
- (1 point) Step 1, 2, 3, and 5 are typed

Form Requirements

- (1 point) Form's title bar is State Information
- (1 point) Form foreground and background is changed

Label Requirements

- (1 point) One label for state name (valid name)
- (1 point) One label for state capital (valid name)

Graphics Requirements

- (1 point) Form includes a graphic image (from any source)

Button Requirements

- (1 point) Form includes a button to close the form (valid name)
- (1 point) Code added to close the form
- (1 point) Buttons for 5 states at the top of the form (valid names)
- (1 point) Code for each state button to display the state name and capital

Documentation Requirements

- (1 point) Program code includes grammatically correct comments