Problem Analysis: This exercise requires a code that will display a button and a counter using the div element. It should increment the counter when a user clicks the button.

Solution: Open the file entitled ‘solution 12.5’ and examine the code.

Lines #12-17 creates a form containing a button and a textbox to display the number of times the button is clicked by the user.

Line #13 begins with a div element that is part of the CSS and has a virtual box around it for displaying in the window. It will display a button with label ‘Increment.’ This button will respond to the onclick event and will call the function ‘increment’ defined in Java script when the ‘Increment’ button is clicked. Line # 15 uses the span element to create an object named count.

Line #9 calls a Java script that contains the following code:

```javascript
// ex12_05.js Solution
var counter = 0;
var countSpan;

function start()
{
    countSpan = document.getElementById( "count" );
document.getElementById( "incrementButton" ).addEventListener( "click", increment, false );
} // end function start

function increment()
{
    ++counter;
    countSpan.innerHTML = counter;
} // end function increment

window.addEventListener( "load", start, false );
```

The code above declares two variables named counter and countSpan. Variable counter is initialized to zero. It will count the number of times the button is clicked. Code also defines two functions: start() and increment(). The start() function calls the increment() function when the user click the button labeled Increment. It also contains the code that uses the ‘getElementById’ method of the document object that returns the content of the element whose ID is count and assigns it to the variable named countSpan. It also responds to the event handler when the user click the button.

The function named increment() increments the variable counter by one each time the button is clicked.