Assume that you've been asked to write an application that determines whether a department store customer has exceeded the credit limit on a charge account. Each customer enters an account number, a beginning balance, the total charged for the month, the total credits for the month and the credit limit. The application should display the new balance in a label on the form. If the credit limit is exceeded, the application should display an appropriate message to the user.

Convert the following algorithm to syntactically correct C# code. You may use Visual Studio to build the application to test it. However you don't need to so if you think you might be short on time spend the time writing the code in a text editor rather than having to build the interface first in Visual Studio. That is you will be graded on the C# code only.  
  
calculateButton click

     get begBalance from begBalTextbox  
     get credits from creditsTextbox  
     get charges from chargesTextbox  
     get creditLimit from creditLimitTextbox  
    
     endBalance = begBalance + charges - credits  
     display endBalance in lblEndBalance  
  
     if endBalance > creditLimit then

         display an appropriate message box

     end if

End

Follow the instructions in one of the two bullets below. Do one or the other, not both.

* Display a generic message box if any of the input isn't the correct format.
* Display a message with a specific message about the first piece of input that is not the correct format.  Move the cursor to the textbox that contains the invalid input data.

calculateButton

{

try

{

// Local variables

decimal begBalance; // To hold beginning balance

decimal credits; // To hold credits

decimal charges; // To hold charges

decimal creditLimit; // To hold creditLimit

// Get beginning balance, credits, charges, and credit limit.

begBalance = decimal.Parse(begBalTextbox.Text);

credits = decimal.Parse(creditsTextbox.Text);

charges = decimal.Parse(chargesTextbox.Text);

credits = decimal.Parse(creditsTextbox.Text);

creditLimit = decimal.Parse(creditLimitTextbox.Text);

// Determine end balance.

endBalance = begBalance + charges - credits;

lblEndBalance.Text = endBalance.ToString("c");

if (endBalance > creditLimit)

{

// Display message.

MessageBox.Show("Credit limit exceeded.");

}

}

catch (Exception ex)

{

// Display default error message.

MessageBox.Show(ex.Message);

}

}