**Write a class that implements a Square shape.  Class Square should contain a side as its instance variable.  Class Square should contain a Side property for accessing Private data.  Provide a constructor that takes a side length as a value.  Also provide the following three methods: CalculatePerimeter() - a square's perimeter is four times of its side length; CalculateArea() - a square's area is its side length times its side length; CalculateDiagonal() - a square's diagonal is the square root of the expression (2 \* Side2).  Then create an application to demonstrate class Square's capabilities.  In your application, you need to provide a textbox to take the input of a square's side length measurement, three buttons to calculate perimeter, area and diagonal, three labels to display the calculation results for perimeter, area and diagonal, an Exit button for exiting the application.  The validation of the input value needs to be checked.**