# Lab Exercise: Stock Comparators

Write an application that sorts a List of *Stock* objects three different ways: by their ticker symbols (such as MSFT), their prices, and their price-to-earnings (P/E) ratios. The user can ask to sort in both ascending and descending order. Figure 3-18 shows the output after the user has clicked the *Sort by Ticker* button. In Figure 3-19, the list is sorted in descending order by stock price. In Figure 3-20, the list is sorted in ascending order by the P/E ratio.

Create a class named *Stock*, with the following properties: Ticker (String), Price (Double), Earnings (Double). Create a constructor that initializes these three values. Also, create a ReadOnly property named *PeRatio* that returns the stock's price divided by earnings.

In your startup form, create comparator methods and pass them to the List.Sort method.

Figure 3-18 Sorting in ascending order by ticker symbol
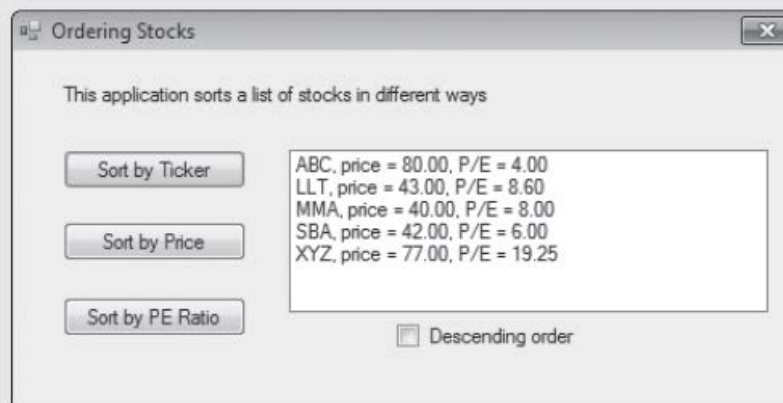
Figure 3-19 Sorting in descending order by price

Figure 3-20 Sorting in ascending order by P/E ratio