CSIS-2530 LINQ

SAMPLE OUTPUT:

```
= = =   Q u e s t i o n   a   = = =

Highest price traded: 138.00 on 2007/02/27
Lowest price traded : 26.42 on 1993/06/21

= = =   Q u e s t i o n   b   = = =

Avg Volume traded per day: 289213.4

= = =   Q u e s t i o n   c   = = =

Volume > Average: 1652 times
Volume < Average: 3270 times

= = =   Q u e s t i o n   d   = = =

10 heighest opening values:
138.00  2007/02/27
137.08  2007/02/15
137.02  2007/02/16
136.90  2007/02/26
136.65  2007/01/04
136.50  2007/02/20
135.85  2007/02/22
135.80  2007/02/23
135.37  2007/02/21
135.25  2007/01/03

= = =   Q u e s t i o n   e   = = =

Average volume per calender year:
1993  vol: 18157.6
1994  vol: 18362.7
1995  vol: 19042.5
1996  vol: 23895.7
1997  vol: 29184.6
1998  vol: 18942.1
1999  vol: 25140.1
2000  vol: 22372.9
2001  vol: 33569.4
2002  vol: 59894.4
2003  vol: 120903.6
2004  vol: 203710.3
2005  vol: 312759.9
2006  vol: 378386.1
2007  vol: 571364.5
2008  vol: 901847
2009  vol: 736800.4
2010  vol: 1107835.7
2011  vol: 695596.8
2012  vol: 428490
```

Turn in:

Zip up your solution and turn it in via Canvas.

Learning Objective:

- practice the use of LINQ
- display formatted output

Description:

This assignment uses LINQ to query stock data from Toyota.

A08.zip includes a starter project to help you get started.

Ad **Toyota.csv**:

Toyota.csv includes stock data from http://finance.yahoo.com/. Each line contains data of a given day: date, open, high, low, close, volume, and adjClose except for the first line, which includes the headers.

Ad **DailyValues.cs:**

This file declares the stuct DailyValues, a data structure used to store the stock values for a given day.

What you need to do:

Implement the static method called GetStockValues so that it reads in the daily values from the csv file and returns them as a generic list of DailyValues. **Resist the temptation to modify the csv file** before you read it in. Rather adjust your code so that the extra header line will be skipped.

Ad **Program.cs**

In Program.cs you find the descriptions of 5 queries.

. Use LINQ to implement those queries.
  There can be an occassional for loop but I want you to keep in mind that this is a LINQ exercise and that the main functionality of the queries needs to be implemented with LINQ.

- **Format your output just like the sample output in the left column**. Be aware though, **your values will be different**
  Pay attention to the way dates are formatted and to the number of digits after the decimal point
  Here are 2 links that might be helpful:
  http://www.csharp-examples.net/string-format-datetime/
  http://www.csharp-examples.net/string-format-double/