Assignment no 25

Q1. What is the distinction between a numpy array and a pandas data frame? Is there a way to convert between the two if there is?

Ans:- Numpy is memory efficient. Pandas has a better performance when a number of rows is 500K or more. Numpy has a better performance when number of rows is 50K or less.

Q2. What can go wrong when an user enters in a stock-ticker symbol, and how do you handle it?

Ans:- A ticker symbol change really means nothing to you, the investor, in the grand scheme of things. The change doesn't do anything to markets or to the way you execute trades. Since everything is electronic, your trading platform or broker will already update your portfolio to include the new ticker symbol.

Q3. Identify some of the plotting techniques that are used to produce a stock-market chart.

Ans:- the four types that are most common are—line chart, bar chart, point and figure chart and candlestick chart.

Q4. Why is it essential to print a legend on a stock market chart?

Ans:- By default, each plot of a Stock chart has a legend, its items representing the series on the plot. In addition, the legend displays information about the points that are currently hovered over or, if none are hovered over, about the last points shown on the plot.

Q5. What is the best way to limit the length of a pandas data frame to less than a year?

Ans:- There are two main ways to reduce DataFrame memory size in Pandas without necessarily compromising the information contained within the DataFrame: Use smaller numeric types. Convert object columns to categorical columns.

Q6. What is the definition of a 180-day moving average?

Ans:- The 200-day moving average is represented as a line on charts and represents the average price over the past 200 days (or 40 weeks).

Q7. Did the chapter's final example use "indirect" importing? If so, how exactly do you do it?

Ans:- Typically, indirect exporting involves a Canadian company that sells to another Canadian company that, in turn, incorporates those products or services into their own value chain for export.