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: **The purpose of these two libraries is different. Pandas data frame is used to convert files into a tabular structure to allow users to perform different operations on it. So it converts data into a 2D format only. Numpy is used to deal any dimension of data and not limited to 2 D only. Yes only a 2d array can be converted into a dataframe.**

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

Ans: **Unsure of the reference of this question as where the user is entering the stock-ticker symbol but this symbol most appropriately can be presented in a form of a dictionary where the key is the symbol and value is the price of the stock.**

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

Ans: **Line chart, Bar chart, candlestick chart**

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

Ans: **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. It is used to make the visualisation simpler and effective as it gives meaning to the various plot elements.**

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

Ans: **I am assuming the data frame has a column showing the date or days so that a condition can be created and then based on that the record less than 365 days can be retrieved. The below example can give you a data frame with the data less than a year old provided that the data frame has column to store the days or date.**

**Df[df[‘days’]<365]**

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

Ans: **it represents the avg value in the past 180 days. It is achieved by summing up the past 180 data points and then dividing the result by 180.**

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

Ans: T**his question in incomplete as it doesn’t show the ‘final example’ stated in the question.**