# Assignment Week

Our customer “International Stock Analysis” (ISA) wants to create an application which helps to stores prices for stock at a given time and compares it to previous prices.

The application should be created with best practices in mind. Your customer needs access to your GitHub project after the project was finished.

Challenge: you will need to learn about how to work with date and times in Java:

<https://docs.oracle.com/javase/tutorial/datetime/TOC.html>

## General Requirements

* Create a new database which stores stocks and prices for a given moment in time
* The application should work as a “REPL” application, which means, it should only stop when the user types “exit”

## Application Features

1. The “import” command should allow importing the file “STOCK\_DATA.csv” to your application
2. The “delete” command should allow you to delete all data from your database
3. The “search” command should help you to find the id for a company. It should support placeholders, so you need to type the first characters of a company to find it
4. The “show <id>” command should show you the last ten prices for a stock with a specific id.
5. The “add <id> <date> <price>” command should allow you add a new price for a specific time
6. The “max <id>” command show the highest price for a stock ever had
7. The “low <id>” command show the lowest price for a stock ever had
8. The “gap <id>” command show the difference between the highest and the lowest price ever recorded
9. The “update-industry <id> <industry>” command should update a stocks industry
10. The “industries” command lists all industries in the database with its ID and the number of stocks assigned to this industry
11. BONUS: The “export” command exports all data to a CSV file which could be imported again

Please take care on good code style and be ready to explain every line of code you have written.