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Assignment 3

September 25, 2022

Software Development in Java

**Assignment 3.1-** **Concurrency/Multithreading**

**Associated Folder-Assignment\_3.1**

*Commands used in command prompt*

Mvn clean install

mvn exec:java -Dexec.mainClass="edu.brandeis.rseg102.concurrency.MoneyMarketMain"

**Summary**

For Assignment 3.1, the objective was to create an application that creates a number of accounts and transfers money from one account to another using synchronization. Two applications were created using the following instructions within the assignment. The commands above were used and the first command was using the mvn clean install. Images were shown to replicate the results given with homework 3 assignment.

Text

Description automatically generated

**Assignment 3.2-Java Networking**

**Associated Folder-Assignment\_3.2**

*Commands used in command prompt*

Mvn clean install

mvn exec:java -Dexec.mainClass="edu.brandeis.MultiEchoServerClient.SerialzationServer" -Dexec.args=”5001”

mvn exec:java -Dexec.mainClass="edu.brandeis.MultiEchoServerClient.SerializationClient" -Dexec.args=”5001”

**Summary**

For Assignment 3.2, the objective was to create a Server and client application to connect to each other using a ServerSocket port. In addition to using the server socket port, getters and setters were established with constructors. The server was able to connect with the client and display the value title and isbn numbers to the client. The commands above were used, and the first objective was using the mvn clean install. Below are the commands run to show the server and client connection. Images were shown to replicate the results given with homework 3 assignment.

Server

Text

Description automatically generated

Client

Text

Description automatically generated

**Assignment 3.3-** **JDBC**

**Associated Folder-Assignment\_3.3**

*Commands used in command prompt*

Mvn clean install

mvn exec:java -Dexec.mainClass="edu.brandeis.jdbc.contact.DataManipulation"

**Summary**

For Assignment 3.3, the objective is to create an application using the books database sql file. Connecting the books.sql file within an SQL server, the java application was created to interact and add information to from java to SQL. The application demonstrates and reenacts the results produced in homework 3 assignment. The commands above were used to produce the results and images below demonstrate the application.

SQL privileges

Text

Description automatically generated

SQL data upload

Text

Description automatically generated

Text

Description automatically generated

A picture containing background pattern

Description automatically generated

1. The initial screenshot after starting the application and adding a new Author

Java command line

Text

Description automatically generated

SQL

Text

Description automatically generated

1. Update the first or last name of the Author.

Java

Text

Description automatically generated

SQL

Text

Description automatically generated

1. Add a new title for this author

Java

Text

Description automatically generated

SQL

Text

Description automatically generated

1. Associate the Author with the Title

Java

Text

Description automatically generated

SQL

Text

Description automatically generated