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Assignment 1

Software Development in Java

08/07/22

I had each command prompt opened in each associated director or folder to run each application of the projects assigned

**Assignment 1.1**

**Associated folder-ex09\_09**

**Commands used**

mvn clean install

mvn exec:java -Dexec.mainClass="edu.brandeis.rseg102.oop.BasePlusCommissionEmployeeTest"

**Summary**

For the assignment 1.1, the objective was to change the java application from an inheritance to a composition. Making the adjustments for the assignment, I was able to perform that application and mirror as the assignment had shown by changing the applications to be written as composition. That task was performed and retested. Below are screen shots of the program running through mvn and successfully building. The commands used are listed above.

Text

Description automatically generated

Mvn build

Text

Description automatically generated

Mvn application execution

**Assignment 1.2**

**Associated folder-ch 10**

**Commands used**

mvn clean install

**mvn exec:java -Dexec.mainClass="edu.brandeis.rseg102.employees.PayableInterfaceTest"**

**Summary**

**The objective of the assignment 1.2 was to modify the classes HourlyEmployee, CommissionEmployee, BasePlusCommissionEmplyee to extend to Commission Employee, and modify PayableInterfaceTest to polymorphically process of two invoices, one HourlyEmployee, One CommissionEmployee, and One BasePlusCommissionEmployee. On top of this, BasePlusCommissionEmployee was to receive and output an increase of 10% of the base salary and a payment amount for each payable object. The objective was achieved and the commands used are listed above.**

Text

Description automatically generated

Mvn build

Text

Description automatically generated

Mvn application execution

**Assignment 1.3**

**Associated folder**

FastCopy, Regular Copy

**Commands used**

mvn clean install

mvn exec:java -Dexec.mainClass="edu.brandeis.rseg102.io.FastCopy"

mvn exec:java -Dexec.mainClass="edu.brandeis.rseg102.io.RegularCopy"

**Summary**

The objective of assignment 1.3 was to copy and move the testFile.txt in FileSource directory into a copyResults.txt file in FileDest directory by using two different methods. The first method used was a bufferstream. This was to show how much faster the copying can be from the next application. The application named FastCopy used the bufferstream and was successful within the process. The speed for this was at a .241 speed. The second method used a fileinput/fileoutput method. This was used under application RegularCopy. The speed for this method was at .251. The run was executed with the commands above and proved to be successful.

**FastCopy**

Text

Description automatically generated

Mvn build

Text

Description automatically generated

Mvn application execution

Graphical user interface, application

Description automatically generated

FastCopy files list

**RegularCopy**

Text

Description automatically generated

Mvn build

Text

Description automatically generated

Mvn application execution

Graphical user interface, application

Description automatically generated

RegularCopy files list