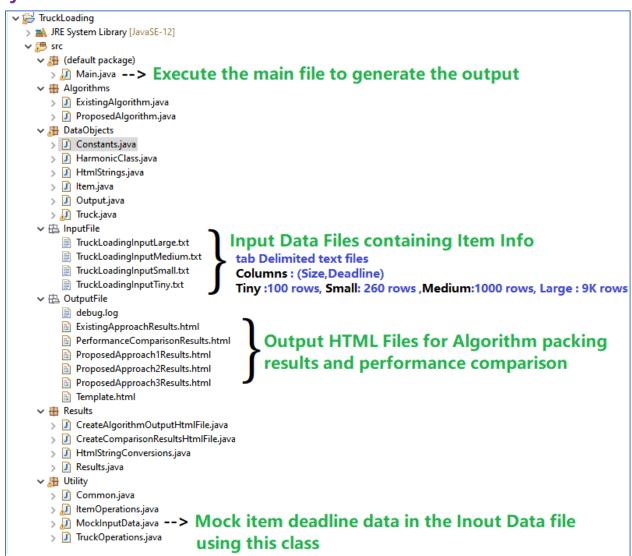
Read Me File for Truck Loading java Application

Steps and Output Execution

- 1) Software Requirements for running Truck Loading Java application
 - a. Java JDK min version 12.0 (https://www.oracle.com/java/technologies/javase-downloads.html)
 - b. Eclipse IDE for Enterprise Java Developers
 (https://www.eclipse.org/downloads/packages/release/2018-12/r/eclipse-ide-enterprise-java-developers
- Download project from below GitHub Link: https://github.com/JasmineRandhawa/TruckLoading
- 3) Open the project in the Eclipse IDE
- 4) Run the Project executing the (src/Main.java) file
- 5) All Output HTML files are generated in folder (/src/OutputFile)

Project Structure



1) Assumption parameters can be modified by changing value sin below filed in Constants.java file:

```
// Assumptions
public static final int OpenTrucksThreshold = 2;
public static final double TruckCapacity = 1.0;
```

2) Before running the project ,user needs to select the input files to be processed and set the input file path to "dataFilePath" variable in "/src/Main.java" file as below:

```
// input data file path
String dataFilePath = Constants.TinyInputDataFilePath;
```

3) Input Files in Project folder (/src/InputFile). The paths to these files are configure in "/src/DataObjects/Constants.java" file as below

```
// Input File paths
public static final String TinyInputDataFilePath = "src/InputFile/TruckLoadingInputTiny.txt";
public static final String SmallInputDataFilePath = "src/InputFile/TruckLoadingInputSmall.txt";
public static final String MediumInputDataFilePath = "src/InputFile/TruckLoadingInputMedium.txt";
public static final String LargeInputDataFilePath = "src/InputFile/TruckLoadingInputLarge.txt";
```

4) To mock Item deadline data , uncomment below line in the "/src/Main.java". The below mock function automatically randomizes the deadline data in the input file. Specify the path of input data file to be mocked in parameter of this function.

```
public static void main(String[] args) throws IOException
{
    try
    {
        /* mock deadline data by copying item size from source file, mock random deadline data and and writing (size, deadline) back to source file */
        //MockInputData.MockInputItemDeadlineData(Constants.TinyInputDataFilePath);
```