**INSTRUCTIONS**

**To start the program** please extract the ZIP, open cmd in the folder path and run:  
 Java -jar ass1.jar

The program is implemented in java, and follows the 3-tier architecture.  
Used libraries: sqlite, Junit.

**Note #1 :**  
The system expects legal types of the input, for example – neto weight will be given as int , not a string/double. (as written in table3 in the other PDF file).

**Note #2:**  
Running the tests means overriding the existing DB with a new one (which created before each unitTest, for tests integrity).  
In any case of mistake which overrides the initial DB, it can be downloaded again from the submission system.

**Program flow:**

The main menu is printed. The user can hit:

1 – to insert data

2 – to update data

3 – to retrieve data

4 – to remove data

5 – to exit the system

**Insert**

The user can insert one of the following:

1 to **insert truck** – The user is required to give truck id, model, color, neto weight(int), max weight(int).

2 to **insert driver** - The user is required to give driver id, first name, last name, phone number.

3 to **insert license** - The user is required to give license id, truck model id .  
Note: Insert only existing models that are in the database!

4 to **insert delivery** - The user is required to give delivery id, date and hour in the required format specified, truck id, driver id, source place id, and destinations. (as specified in (7))  
Note: Insert only existing trucks, places, drivers in the database, insert only driver with a suitable license for the truck given!

5 to **insert place** - The user is required to give place id, address, phone number and contact name.

6 to **insert license for driver** - The user is required to give driver id and license id.  
Note: Insert is allowed only if the driver and the license exist in the database!

7 to **insert delivery destination** – The user is required to give the delivery id. For each destination the user is required to give the destination place, and the order to this place. Each destination has its own order, and the user is required to insert the name of the item and the quantity of it.

8 to **insert truck model** - The user is required to give model id and name

9 for main menu

**Remove**

The user can remove one of the following:

1 to **remove truck** – The user is required to give truck id.

2 to **remove driver** - The user is required to give driver id.

3 to **remove license** - The user is required to give license id.

4 to **remove delivery** - The user is required to give delivery id.

5 to **remove delivery destination** – The user is required to give the delivery id, and the destination id.

6 to **remove place** - The user is required to give place id.

7 to **remove license for driver** - The user is required to give driver id and license id.

8 to **remove truck model** - The user is required to give model id.

9 for main menu

**Update**

At any update procedure, the user can choose which fields to update.  
The user can update one of the following:

1 to **update truck** – The user is required to give truck id, and the desired fields to update.

2 to **update driver** - The user is required to give driver id , and the desired fields to update.

3 to **update license** - The user is required to give license id, and the desired fields to update.

4 to **update delivery** - The user is required to give delivery id, and the desired fields to update.

5 to **update place** - The user is required to give place id, and the desired fields to update.

6 to **update truck model** - The user is required to give model id, and the desired fields to update.

7 for main menu

**Retrieve**

The user can retrieve one of the following:

1 to **retrieve truck** – The user is required to give truck id.

2 to **retrieve driver** - The user is required to give driver id.

3 to **retrieve license** - The user is required to give license id.

4 to **retrieve delivery** - The user is required to give delivery id.

5 to **retrieve place** - The user is required to give place id.

6 to **retrieve license for driver** - The user is required to give driver id and license id.

7 to **retrieve truck model** - The user is required to give model id.

8 for main menu