

**SCJ 3323 – Software Architecture & Design**  
**Lab Exercise**

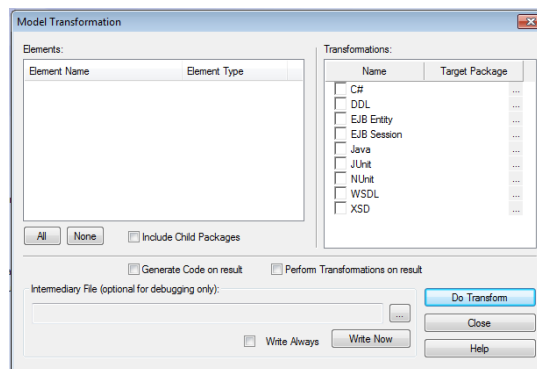
**Lab Exercise 2a – PIM->PSM Model Transformation**

*(This lab exercise is not self-explanatory. Further explanation will be given by the instructor during the lab session)*

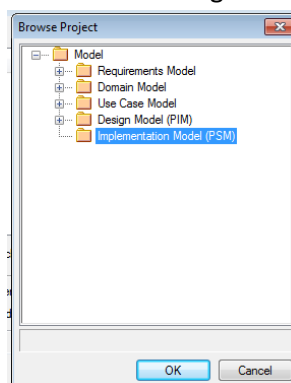
**Task 1:** In EA, open the file that you saved in Lab Exercise 1 or download the EA project `CarRentalSystem_Lab2-DesignToImpl-Starter.eap` from the e-learning website. Complete the sequence diagrams of *Add New Vehicle* and *View Vehicle Information* under *Manage Vehicles* use case.

**Task 2:** PIM Transformation into C# PSM.

1. In the project browser, select Design Model (PIM), and right-click.
2. Select 'Transform Current Package'. The following window will appear:



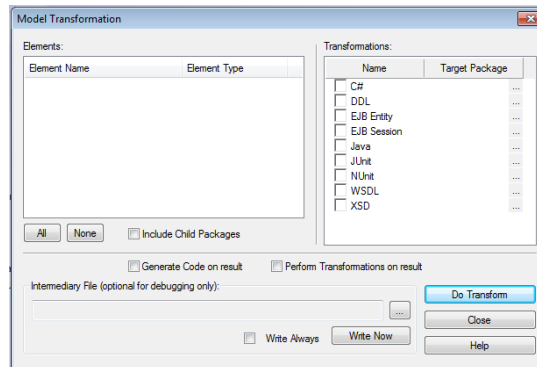
3. Select 'Include Child Packages'.
4. Click C# in the Transformation section. The following window will appear:



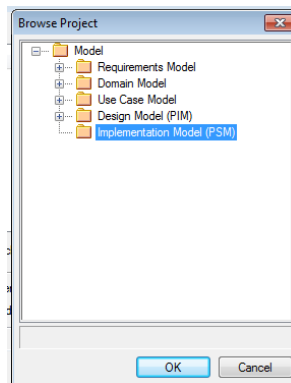
5. Select Implementation Model (PSM), and click 'OK' button.
6. Click 'Do Transform' button.

### Task 3: PIM Transformation into DDL PSM

1. In the project browser, select Design Model (PIM), and right-click.
2. Select 'Transform Current Package'. The following window will appear:



3. Select 'Include Child Packages'.
4. Click DDL in the Transformation section. The following window will appear:



5. Select Implementation Model (PSM), and click 'OK' button.
6. Click 'Do Transform' button.

At the end of this lab exercise, your Project Browser will look like the following:

