Laboratory 11
(week 11-15 December 2017)

TASKS:
A. Please submit the Lab-Assignment 6 to your laboratory professor.
B. Please continue to work on the Lab-Assignment 7 . The deadline of Lab-Assignment 7 is week 13 (8 - 12 January 2018).
C. Please start to work on the Lab-Assignment 8. The deadline of Lab-Assignment 8 is week 14 (15 - 19 January 2018).

Lab-Assignment 8

You must extend the JAVA project from Lab-Assignment 6. Please implement in JavaFX a GUI for your interpreter from the Lab-Assignment 6. The GUI must support the following operations:

1. A window to select the program that will be executed. You can display the list of possible programs as a ListView. Each item of the ListView is the string representation of a possible program (IStmt).
2. The main window that displays the following information:
    (a) the number of PrgStates as a TextField
    (b) the HeapTable as a TableView with two columns: address and value
    (c) the Out as a ListView
    (d) the FileTable as a TableView with two columns:identifier and file name
    (e) the list of PrgState identifiers as a ListView
    (f) a Table View with two columns: variable name and value, which displays the SymTable of the PrgState whose ID has been selected from the list described at (e)
    (g) a List View which displays the ExeStack of the PrgState whose ID has been selected from the list described at (e). First element of the ListView is a string represenatation of the top of ExeStack, the second element of the ListView represents the second element from the ExeStack and so on.
    (h) A button "Run one step" that runs oneStepForAllPrg (you have to design and implement the handler of this button based on the previous method allStep). After each run the displayed information is updated. You may want to write a service which wraps the repository and signals any change of the list of PrgStates (please see the lectures examples).