## Topic # 06 "Software Architecture Design" Homework Assignment (Ch. 9)

- 1) This is REQUIRED HW assignment.
- 2) This HW is intended to help you to practice with SE Architectures.
- 3) There is NO NEED to email your results to instructor.
- 4) This HW is aimed at your partial preparation for the Midterm.

## **Topic 06: Homework Assignment**

\*) A hint: create a list of about 20 well-known software applications that you actively use, and try to classify their architectural structures them in accordance with learned SW Architectural Models.

## Part # 1 : Ex. 9.2. (p. 274):

For each type of SW architecture below identify <u>2 examples of well-known</u> <u>commercial software</u> <u>systems</u> (applications) that are well described by 5 basic types of software architectures including:

- 1. Data-centered architectures
- 2. Data-flow architectures
- 3. "Call and return" architectures
- 4. Object-oriented architecture
- 5. Layered architectures

Provide a brief justification of your selection.

## **Part # 2:**

For each type of innovative SW architecture below identify <u>2 examples of well-known</u> <u>commercial software systems</u> (applications) that are well described by:

- 1. Client-server architectures (not data-centered) services are in the center
- 2. Peer-to-peer architecture
- 3. Plug-in (add-in) architecture
- 4. Distributed computing (cloud computing, GRID computing) architecture