Hosam Abdeltawab **Quiz 7** **October 19, 2017**

1. **What is element interface?**
   - It is a contractual specification of how information should flow between the elements

2. **Specify 6 inputs for the architecture design (pp 44-45)**
   - We need to ensure that we are clear about the *purpose* for the design activities that will ensue
   - we need to make sure that the other drivers needed for the design activity are available
   - we need to consider is the existing architecture design.
   - We need to instantiate architectural elements, allocate, responsibilities and define interfaces.
   - We need to sketch views and record design decisions.
   - Perform analysis of current design and review iteration goal and achievement of design purpose.

3. **How to refine architecture elements? (pp 46)**
   - Refinement can mean decomposition into finer-grained elements (top-down approach), combination of elements into coarser-grained elements (bottom-up approach), or improvement of previously identified elements. For existing systems or for later design iterations in greenfield systems, we normally choose to refine elements that were identified in prior iterations.

4. **Why do we need to store the sketches of the architectures and the design decision?**
   - Because the sketches and decisions that I produce are the initial documentation for my architecture that I should capture and may flesh out later, if necessary. Furthermore, it is fundamental to help in understanding how I arrived at the result