# Software Project 2 Pass

- Design and implement an assembly for SIC/XE
  - The test data look like Figure 2.5 and are generated by MS Notepad.
  - The possible OPCODE in the test data contains all the OPCODEs which appear in Figure 2.5. They include STL, LDB, LDA, COMP,...
  - The assembly directives include all those appear in Figure 2.5., e.g., START, +, BASE, BYTE, RESW, RESB, END, ....
  - The name of labels are not allowed to be the same as OPCODEs or assembly directives.
  - The format of the object program generated by your assembly should conform to Figure 2.8.

## **Software Project**

#### Bonus points

- If your assembly is a one-pass assembly.
- If the implementation of your assembly includes "Literals"
- If the implementation of your assembly includes "Symbol-defining Statements"
- If the implementation of your assembly includes "Program Blocks"
- ◆ If the implementation of your assembly includes "Control Sections"

### **Project Report**

- The student should prepare a report which contains at least the follows:
  - ◆ The architecture of the implemented assembler
  - ◆ What you have learned and experienced during the implementation.
    - E.g. You could show your daily record of the implementation.
  - In case you implement more than the required specification, please itemize it.
    - If you implement something mentioned in the previous slice (bonus points), show your test codes (in SIC/XE), and the generated object programs.
  - Copyright Claim
    - Do you make the implementation yourself?
  - Any thing you would like to let G.H.Hwang know.
    - → E.g. Suggestion, ...
- Who will be reading the report?
  - Not TAs but G. H. Hwang

### How to hand in your report?

- Please deliver your project report in Moodle system
  - ◆ Attached filename: your\_student\_id.zip
  - It should have at least the following items:
    - Electronic files of your report
      - MS word and PDF
    - Source codes
      - OS, Used language, and how to compile your code