Separately Assembled Files

- We want to be able to create separate files (modules) for functions that we want to reuse.
- Points to note:
  - only one file should have .startup and .exit
  - only one file should set up the stack (both modules will share the same stack)

  (what's the stack? don't worry about it for now, you'll learn about it later!)

Global Label Definition

- Assembler destroys the symbol table (the table that gives the value for the labels in the program) after assembly – assumed scope of labels is local.
- To declare them as global:

  PUBLIC – use this when they are defined; makes the symbol global and keeps the definition for the linker.

  EXTRN – use this when label is referenced.

- example (on board)

EXTRN formats

- EXTRN Name:Type
  - Type:
    - Byte, Word, Dword for data
    - Near, Far for procedures
    - or Proc, which defaults to Near for a small memory model.

- external procedure call example, Irvine P. 335

Building Program from Separate Files

- p. 336 example: