Sub Procedures II

Instructor: Dmitri A. Gusev

Fall 2007

CS 113: Introduction to Computers

Lecture 7, October 9, 2007
How to Get a Value Back from a Sub Procedure?

• When an argument is a variable, it can be passed by reference to a Sub procedure, so the value of that variable may change as a result of executing the Sub procedure.

• The variable can also be passed by value. In order to achieve that, its name must be enclosed in an extra pair of parentheses in the Call statement:
  
  Call Triple((amt))
Local Variables

• As soon as the End Sub statement for the procedure executes, the memory allocated to hold the value of a *local variable* is freed up.
Form-Level Variables

- The Dim statements for *form-level variables* appear at the top of the Code window. The form-level variables are visible to every procedure in a form’s code.
Advantages of Using Sub Procedures

- Programs with Sub procedures are easier to debug
- Sub procedures can be reused. (*Libraries* of Sub procedures are very useful.)
- The Sub procedure mechanism helps distribute work among several programmers
- Sub procedures make large programs easier to understand
- Sub procedures enable top-down design