

# Activity 7

## Active Learning Exercises

CSS 341

### Names (if present in class):

#### Part I

This activity is meant to explore several aspects of using subprograms and functions. It will ask you to use three of the code examples set in doing this. You should also look at the first few slides from the Week 4 slide set.

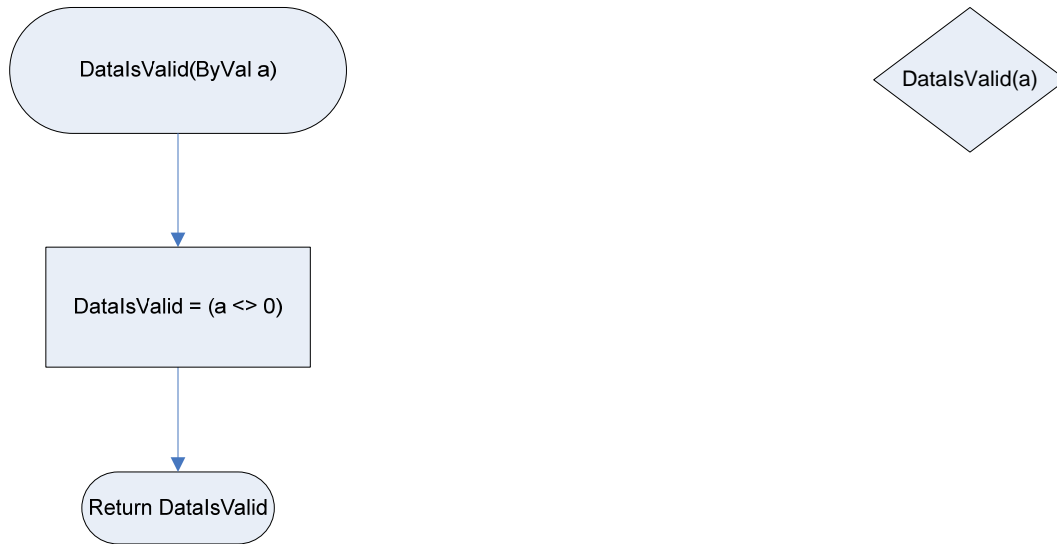
1. *ExampleSubAndFun.vbs* (**week3**) is an example of a highly modularized program that uses both functions and subprograms. Your task here is to examine that program carefully and flow chart it. This will give you a sense of how the modules are used by each other. The main program is the last 10-15 lines of the code and consists of a DO-LOOP WHILE construct and an output statement.

The flow charts for each subprogram or function are stand-alone constructs. The ways they are called from the calling program are represented differently, however.

As examples, the subprogram *EchoResultsToUser* might be charted as on the left below, and the call to it from the main program as on the right:



As a further example, the function *DataIsValid* could be diagrammed on the left and called (here in a decision statement) on the right:



With these examples of flow charting functions and subprograms and of invoking from calling programs, construct a rough flow chart for the program *ExampleSubAndFun.vbs* here and on the next page.

Continuation of flow chart



