Function Basics

* Functions are
  + A list of PowerShell statements
  + Assigned a name
  + Can have parameters
    - Read from prompt
    - From pipeline
  + Can act like cmdlets
* Function syntax

function <function-name> {statements}

* Create function
  + Copy finished-archive-files.ps1 to new script, test.ps1
  + Add default values for $path and $days
  + Comment out Move-Item
  + Analyze 'IF' statement, thinking about function
  + Copy 'IF' parts to new script, myFunctions.ps1
  + Remove 'Archive Files?'
  + Create $message parameter
  + Update 'switch' to return $true or $false
  + Add y & n options to 'while' and 'switch' statements
* Use function
  + Update test.ps1 to use function
  + No tab-autofill
  + Use in current session
    - Run script with function definition
      * Function now available for current session
    - Launch new PowerShell session
      * Function not available
    - Restart ISE to clear session
      * Function not available
  + Dot source per script
    - New script, function not available
    - Dot source function in script  
      . c:\users\nameofuserprofile\documents\scripts\myFunction.ps1
    - Must run script to load dot sourced files
  + Dot source in profile  
    Set-Profile
    - Pay attention to which profile
  + Create module
    - Show default module paths  
      $env:PSModulePath
    - Create module folder in user path
    - Create folder with same name as .ps1 file
    - Rename .ps1 to .psm1  
      Get-Module -ListAvailable
    - Can use Import-Module or just use function (3.0)