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<# PowerShell Homework 04
 This script repeats the project for the Batch file in order to show parameter passing
 and control flow of PowerShell scripts.

 Pseudocode
     Define parameter names
     Information on how to do this appears on page 4 of the homework handout, with
     examples on the preceding page.  You may choose the names of your parameters,
     simply replace firstName and lastName with the names you choose (the examples
     from page 3 use $filePath and $fileExt)

     If <directory parameter> does not specify a directory
         display an error message
         exit the script
     Information on the language constructs for this appears prior to page 6, while
     the actual method to do this appears in the middle of page 6.  Once again, use
     the parameter names you selected.

     If the sub-directory <directory parameter>\bob does not exist
         create the sub-directory
     The method for checking if a directory exists still appears on page 6.  Use that
     in combination with the command to create a directory from the middle of page 7
     to perform this action.  Note the homework defines a variable called $imageDir to
     use in the if statement and later when we are actually converting the images.  I
     recommend you do the same, though you may call your variable anything you like.

     For each <file> in the directory <directory parameter>
         If <file> is an image of type <extension parameter>
             convert <file> -resize 640x <directory parameter>\bob\sm_<file>
     The information on pages 8 and 9 provides the remaining structure for the for
     loop and the convert command, including how you can separate the file name into
     the appropriate parts.  See page 8 for the for loop, the bottom of page 8 for how
     to get the file name and page 9 for constructing the convert command.
#>
```