COMP1268 Scripting and Automation Baddeley
Functions Applied Quiz 5 Marks

Applied Quiz Premise

We often have to perform checks on filenames before a client or web program uploads them to a server. This means that we would ensure that the following characters are not present in a filename:

- \ / : * ? " < > |

In this exercise you will code a function that can be called on to check and correct an improper filename.

We will start by coding a simpler program that looks for one invalid character in a file name at a time. Then there will be a bonus round, where you can code a function that looks for all of the invalid characters in one process.

Important Note: because one of the invalid characters that you will be referring to in this exercise is a double-quote, it would work best for you to surround all of your string values for today's challenge in single quotes.

Applied Quiz Instructions

1. Open PowerShell ISE and save your scriptfile as ***YourName*_Quiz4.ps1**

2. Create a function called, **fixFileName**. This function will receive **2 parameters**:
   a. A parameter to receive an invalid character
   b. A second parameter to receive a file name value

3. Your function should test the file for the invalid character that was passed into the function. **HINT**: think about using the string's **contain** method … If you find the character, remove that character from the file name (**HINT:** think about using the string's **replace** method), and return the corrected filename back to the calling program; otherwise, return the Boolean value, **$false,** to the calling program.

4. Test your function out! Write some code that will declare a string with a filename value. Place one of the invalid characters into the string. Now call the function that you coded, using your filename string and the invalid character that you placed into the filename. Output to the console the value that the function returns.

Bonus Round!

Think about how you can code **fixFileName** so that it only receives one parameter – the filename. You function should be able to cycle through all invalid characters and see if they are in the filename. After that, follow the same logic as your first coded challenge: return the corrected filename back to the calling program, if you found errors; otherwise, return the Boolean value, **$false,** to the calling program. Test your function …