## **Practical Exercise - Walkthrough**

When trying to run first time, you'll notice that the workflow fails with "Object reference not set to an instance of an object." message when executing the Assign.

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- This is because the *index* variable is not initialized. While a **Int32** or **String** get created with default values even if they are not explicitly specified, a **GenericValue** variable is not created implicitly as there is no way to know if you'd like to have an integer (so a 0 default value), a String (so a "" default value) etc.
- Either change the variable type to an Int32, or set a Default value of 0. Let's go with the latter.
- If you ran it again, you would notice that the first issue is solved, but now it is failing after a few iterations, with the message "Index was outside the bounds of the array.".
  - This is because at that moment, the index variable value is 5, so it's trying to access the filesArray index / position number 5, which doesn"t exist in this case.
     The array has 5 elements, starting from index 0 to index 4. The index 5 is outside of the array limits.
  - This is due to a logical error in the algorithm as the loop is iterating more times than needed.
  - We should only let the index get to a value of maximum 4 when it enters the Sequence, so the easiest way is to remove the = from the expression, leaving it as index < filesArray.Count.</li>
- If we check the logs, we can see a contradiction between the messages for file 5.txt, one stating that the content will not be added and other mentioning that the append has been finalised.
- Also, the requirements state that if the reading of the file fails (as is the case for 5), the Append line should not be executed.
- Third, if we look at the consolidated file, the content is wrongly added, as some lines are duplicated.
  - This is because the text variable has a While scope, so it's being kept from
    iteration to iteration. That means when it is not set with the file text value, because
    of the Read Text File exception (e.g. 5.txt), then it keeps the previous value (e.g.
    the 4.txt text).

- As we can easily fix this by changing the scope of text from While to Process one file, this fixes just part of the problem and still doesn't respect the requirement.
- The easiest way to fix the functionality is by putting the content of both **Try Catch** blocks into only one.
  - This way, if the first activity fails, the execution jumps to the exception handling Catch block, so the second activity is not executed anymore.
  - Drag and drop the Append Line and Log Message activities to the first Try block, right after the Read Text File. The Append Line depends on Read Text File so they need to be in the same Try Catch block to work correctly.
  - Delete the second **Try Catch** block.