Price converter

version 1

Initial data

- We have three files with prices in in original currencies (in different excel version)
- Source for exchange rates: https://x-rates.com/

Goal

- Receive result file with merged and sorted prices (converted to USD value) from all input files.
- Save the result file with "timestamp" filename like: "Output_MM.dd.yy_HH.mm.ss"

Proposed solution workflow

One workflow consists 2 parts:

1. Get currency rates Sequence
   a. Use **Read Cell** activity (get Column name, save as a string variable)
   b. Use **Assign** activity (assign currency label to a new string variable, remove insufficient symbols)
   c. **Open browser** (Chrome, : https://x-rates.com/)
   d. Use **Type** Activity (type currency label into specified field)
   e. Use **Click** activity (click on "Currency Calculator" button)
   f. Use **Get Text** activity (catch the exchange rate value, save to string value)
   g. Repeat for all input files

2. Price Converter Sequence
   a. Use **Read File** activity (save to Data Table variable)
   b. Use **Add Column** activity (add new column to data table for placing calculated prices in USD)
   c. Use **For Each** activity (for each row in data table calculated the price in USD, save in specified column)
   d. Use **Save/Append** activities (for save calculated prices from all input files in one temporary file)
   e. Use **Sor**t Activity (sort data in result file by price in USD, I choose descending sorting)
   f. Use **Delete Column** activity (delete unnecessary column with prices in original currency from result file)
   g. Use **Assign** activity (assign time stamp to the output file's name pattern)
   h. Use **Rename File** activity (use pattern)
   i. Use **Delete File** activity (delete temporary result file)

<u>Released solution workflow (problems, mistakes, "cheating moments" – plan to improving)</u>

Two separate workflows :((after solving problems should be merged)

1.d. – 1.f.

- Works correctly only for EUR, when type into field CNY or TRY – the EUR value come back. Solve this problem (cheating) – open link to direct page with relevant rate

- Get rate from website with redundant characters. Don't find how to get only necessary symbols – plan to deep into Selectors topic again to solve this problem

2.c. Use predefined value for currency rates – (due to abovementioned problem)

2.d. Couldn't write into file with Column names row (header).

2.d.- 2.h. Lose one row with data – in the result file (first row from first data table) – in output file only 14 rows instead of 15 (couldn't find the problem)

2.h. Couldn't save output file with proper name – instead use rename activity (but it uses absolute file path – not convenient)