

# Instruction for Price Matching System

คู่มือการใช้งานระบบ Price Matching

REVISION 1.0 EN.



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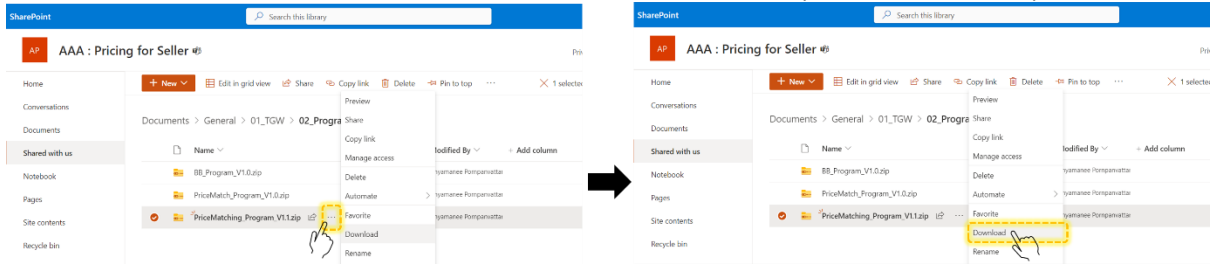
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## 1. Purpose

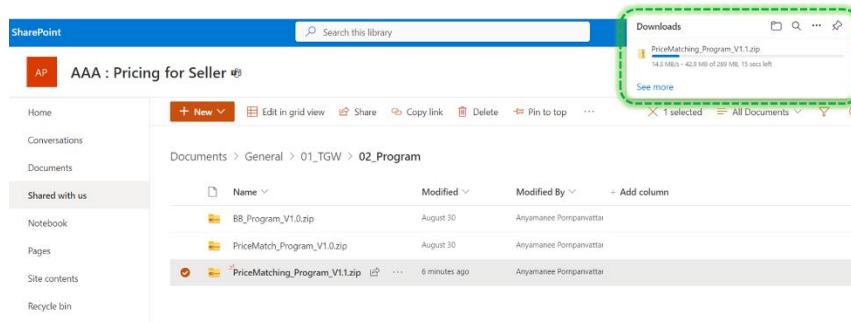
This guide demonstrates how to utilize the Price Matching program to adjust prices based on specific criteria from a master database, as well as how to match prices using data sourced from websites.

## 2. Pre-requisites

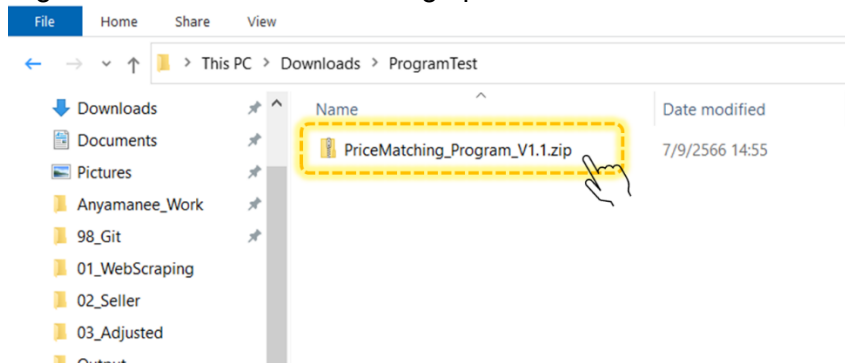
- Click on the link to download the latest version of the ZIP file ([Link to Download](#)).



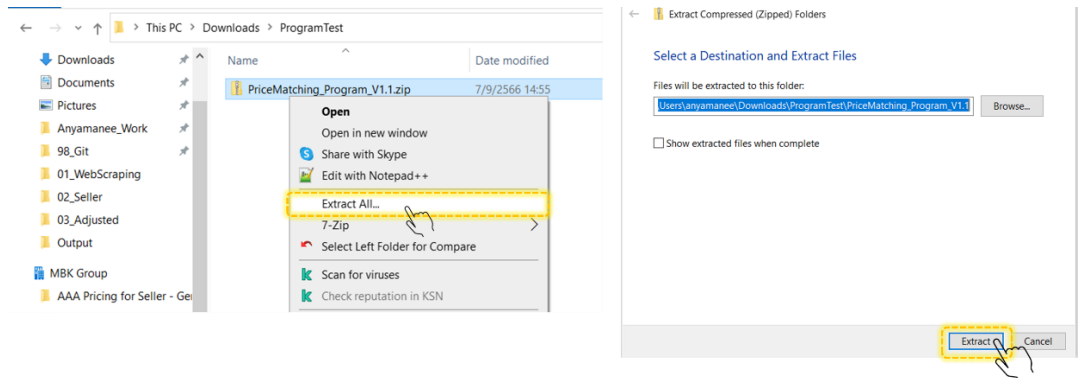
- Wait for the download to complete before proceeding.



- Move the ZIP file to your selected directory and unpack its contents as steps below.
  - Right-click on the ZIP file to bring up the context menu.



- Select “Extract All.” on the context menu and then select “Extract”.



- When extraction is complete, will see an unzipped folder, as depicted in the accompanying image.

	Name	Date modified	Type	Size
✓	PriceMatching_Program_V1.1	7/9/2566 15:23	File folder	
	PriceMatching_Program_V1.1.zip	7/9/2566 14:55	Compressed (zipp...	275,199 KB

### 3. Program Introduction

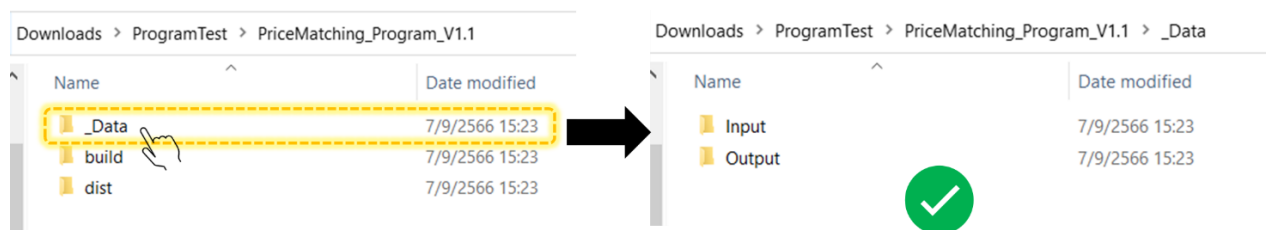
This is a price-matching application in an EXE file that matches market prices. The price information was obtained through web scraping.



**PriceMatching\_Program.exe**

#### 3.1 Data Checking

Before beginning the Price Matching Program, ensure that your data is properly arranged in the relevant input and output folders. This will ensure that your data is processed and exported smoothly.







### 3.1.1 Input folder

Should have included 4 folders, within the 'Input' folder as shown in the table.

Folder Name	Details
01_Database	This folder is the primary repository for 3 raw data files. DMS Data File: Contains data sourced directly from the DMS System. This file often has dealership-specific details about vehicles. Website Data File: Data scraped from various online marketplaces or official websites. This provides a snapshot of market prices. Redbook Database File: Comprehensive database from Redbook, detailing vehicle specifications and historical prices
02_Seller	Information pertaining to individual sellers or dealers. Inventory Data: List of vehicles currently available for sale by the seller, with associated details like price, condition, etc.
03_Adjusted	Discount and Add-ons List: A detailing any current promotions, discounts, or add-ons that can impact the final adjusted price.
04_Master	A centralized folder containing master data that are crucial for the program's price matching algorithm.

Double-check to ensure all the necessary files are present. Remember, the program will use this data for the price-matching process.

Name	Date modified
 01_Database	31/8/2566 12:16
 02_Seller	4/9/2566 17:05
 03_Adjusted	6/9/2566 14:51
 04_Master	30/8/2566 9:36

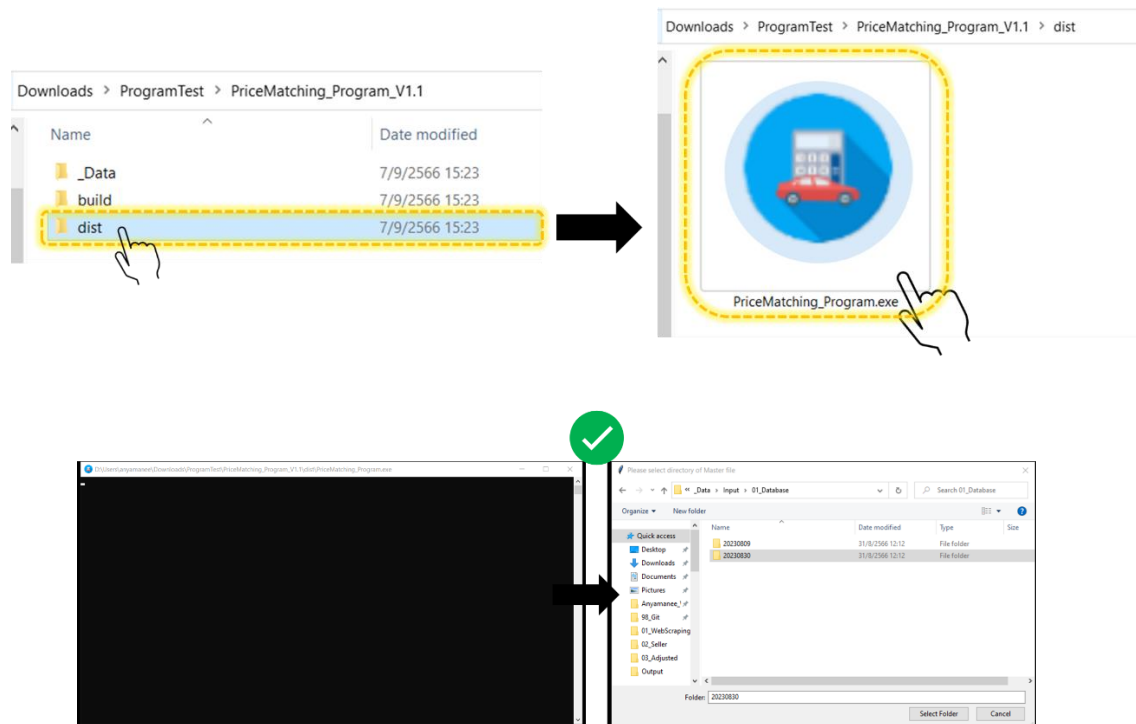
### 3.1.2 Output folder

The Output folder is specifically designed to store the results generated by the Price Matching Program. After the program processes the input data, matched or adjusted prices, along with any supplementary details or logs, are saved in this folder. This structure ensures a clear demarcation between raw input data and processed outputs.

## 4. Instructions

### 4.1 Starting Program

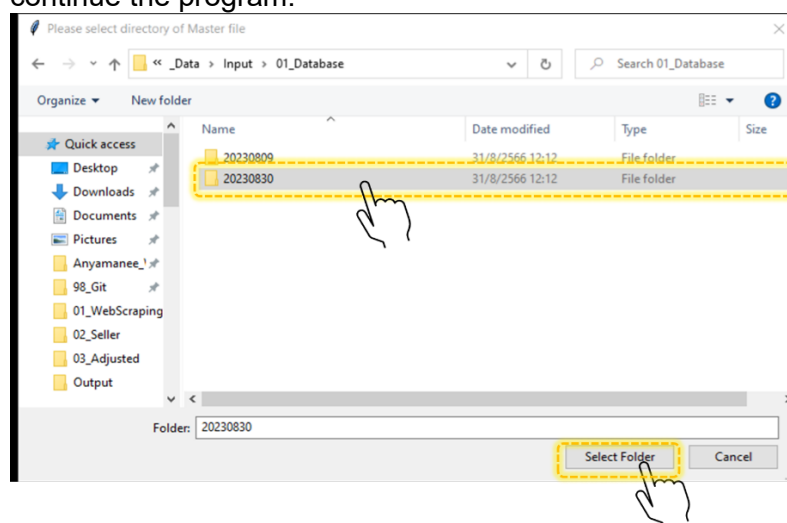
- Double-click the "PriceMatching\_Program.exe" file in the "dist" folder. The program will start after this step. As it loads, wait a few minutes to show the black window and directory window.



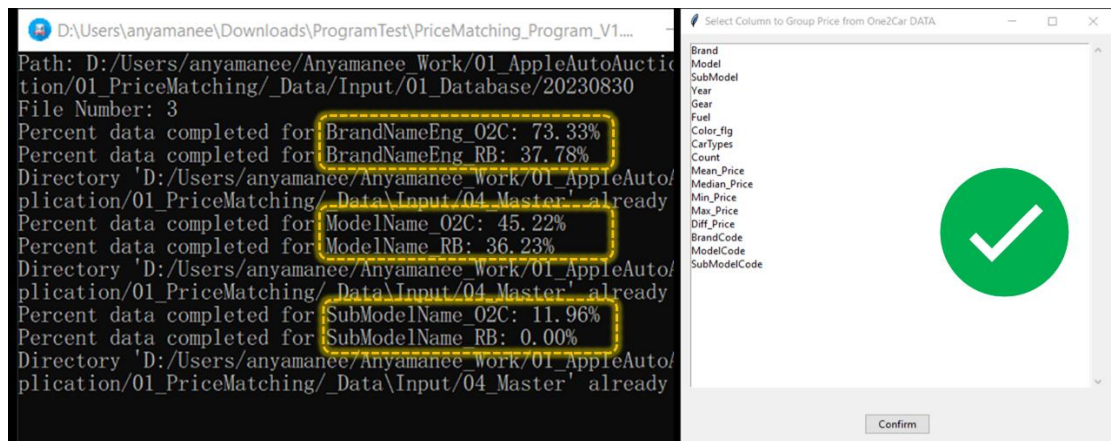
### 4.2 Input File Selection

#### 4.2.1 Database File

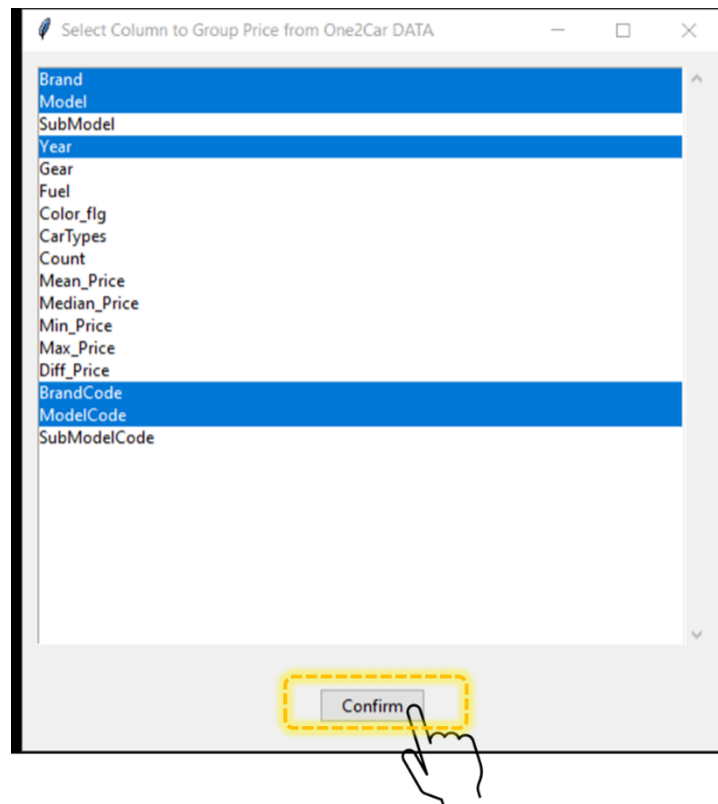
- select the path: "\\PriceMatching\_Program\_V1.1\\\_Data\\Input\\01\_Database\\(date latest folder)" from the browser window, and then click "Select Folder" to continue the program.



- If the chosen folder is accurate, a black box indicating the percentage of data that matches Brand, Model, and SubModel will show, along with a column selection window.



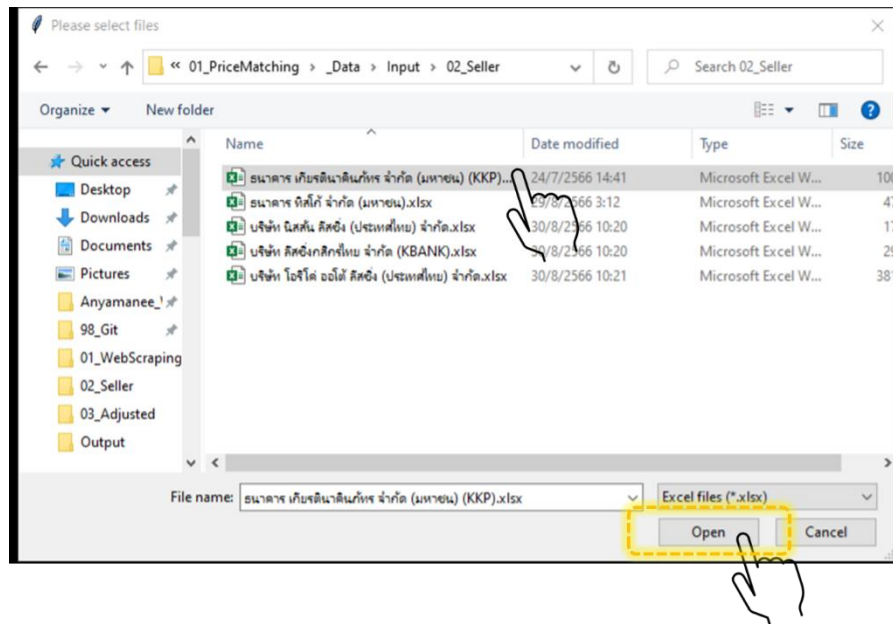
- Select multiple column name(s) that want to use for grouping the pricing Website's data.
- Click the "Confirm" button after making your selection, review it to ensure you've chosen the correct columns.



#### 4.2.2 Seller File

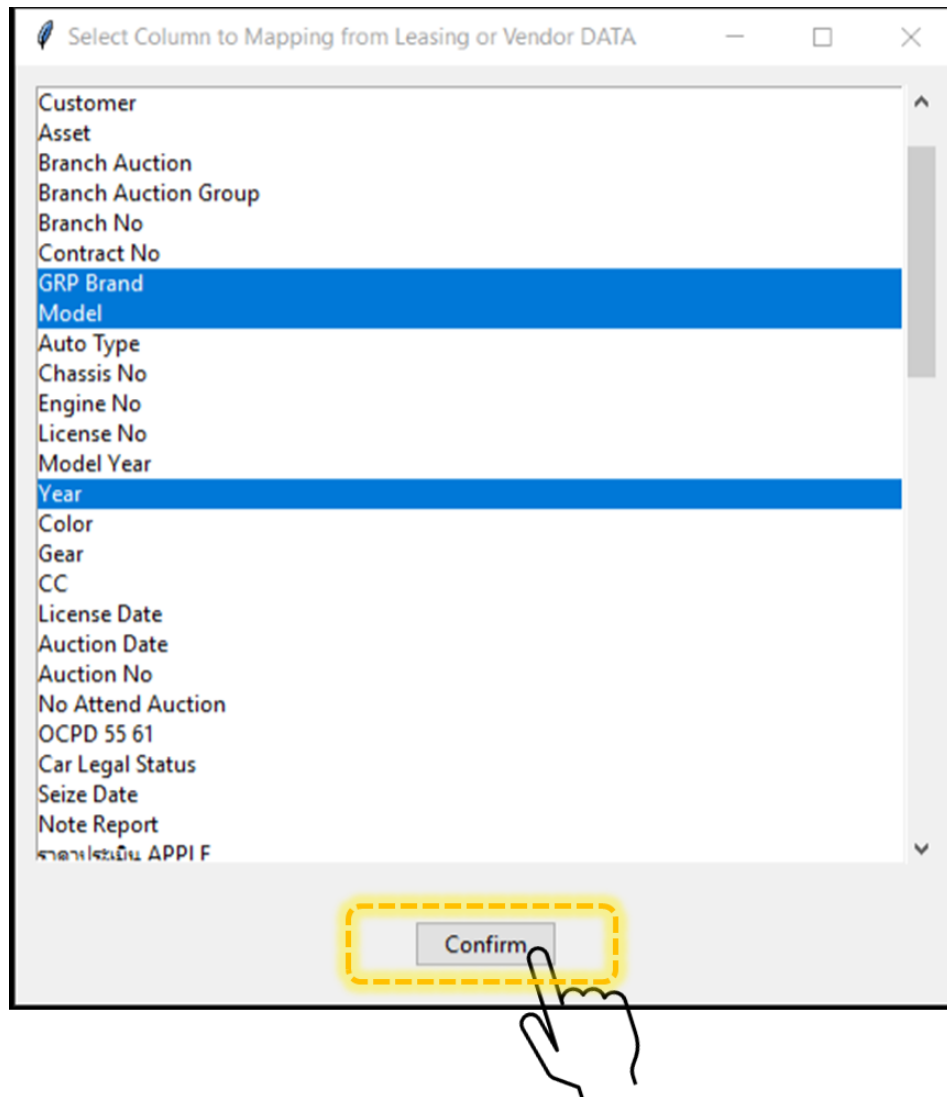
The Seller File contains critical data provided by various sellers. This file includes price listings, product details, and other related information that aids in the price matching process. To ensure the accuracy of your price matching results, it's essential to choose the correct Seller File. Below is a step-by-step guide on how to do so.

- Select seller file, and click on the “Open” button, usually found at the bottom right of the window. For example, using seller from “เกียรตินาคินภัทร” file.

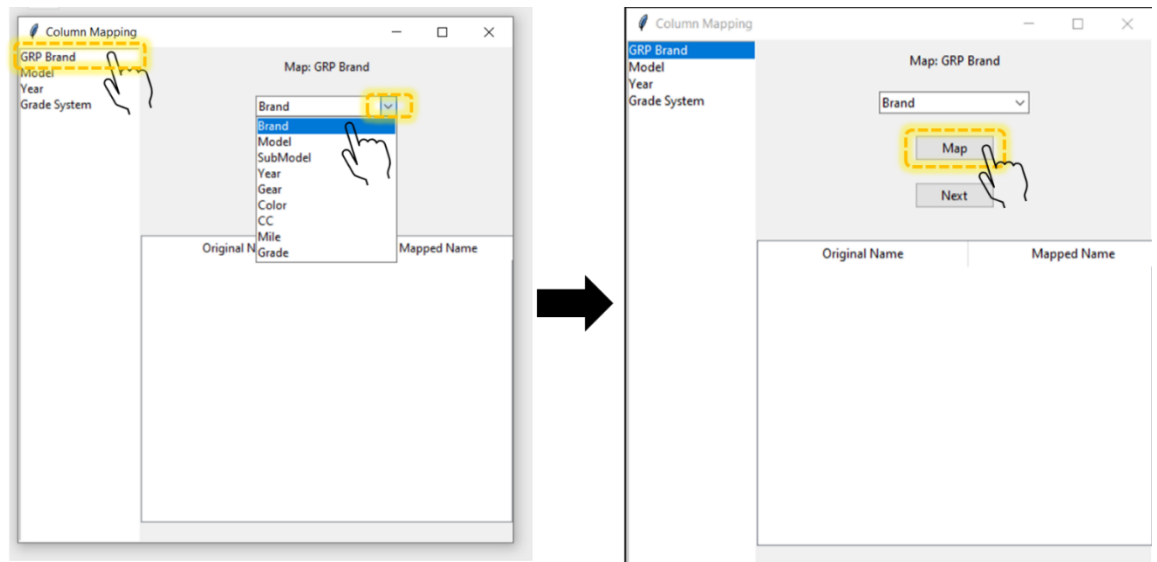




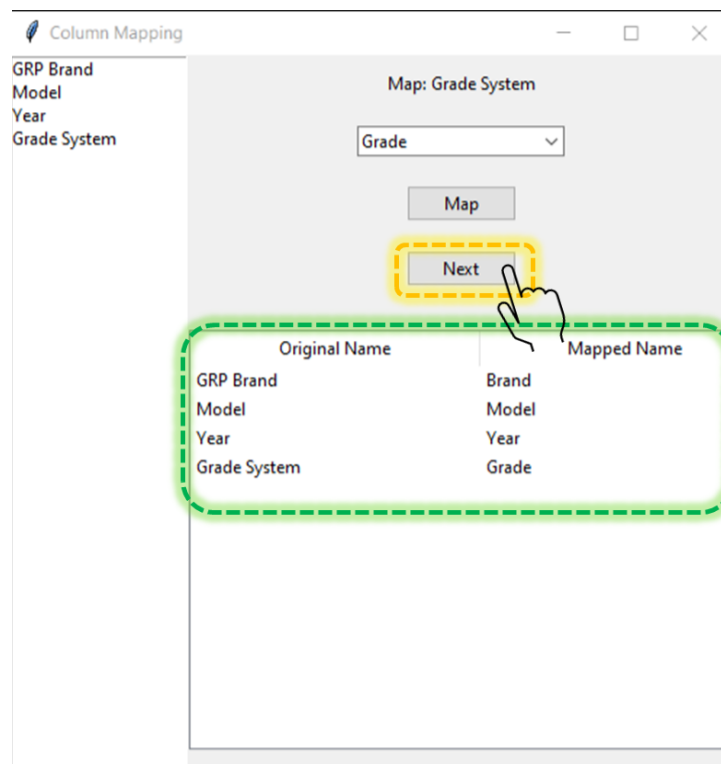
- Select multiple column name(s) that want to change column name to mapping with DMS file. Then, click the "Confirm" button after making your selection, review it to ensure you've chosen the correct columns.



- Map the column name(s) from the original column name, and then click on the right-side dropdown or field. A list of common column names will be displayed.
- Choose a standard column name that corresponds to the original column's intent and content. For example, if the original column is labeled "GRP\_Brand," it may equate to the conventional label "Brand".

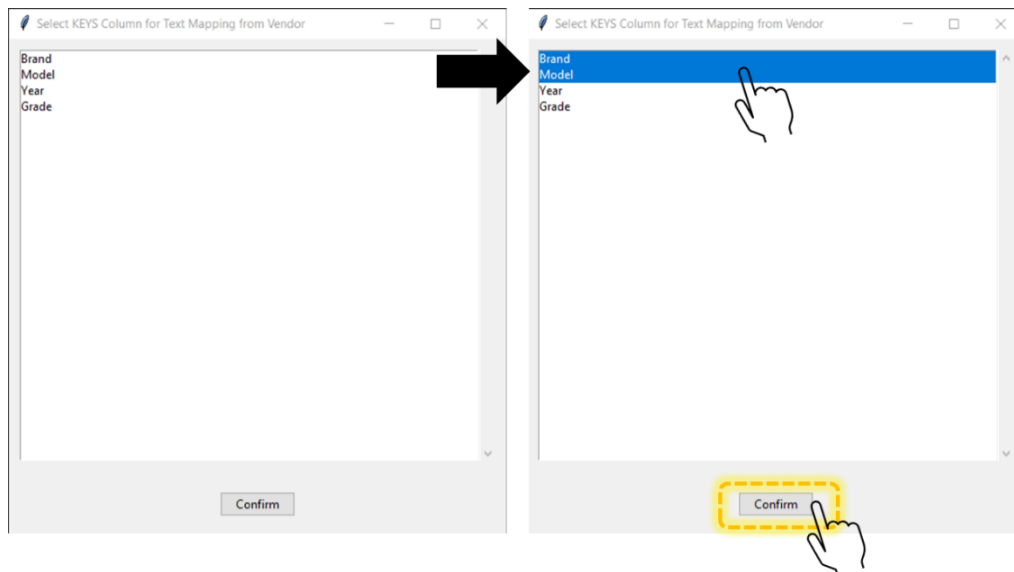


- To continue, click "Next" when the mapping is finished.

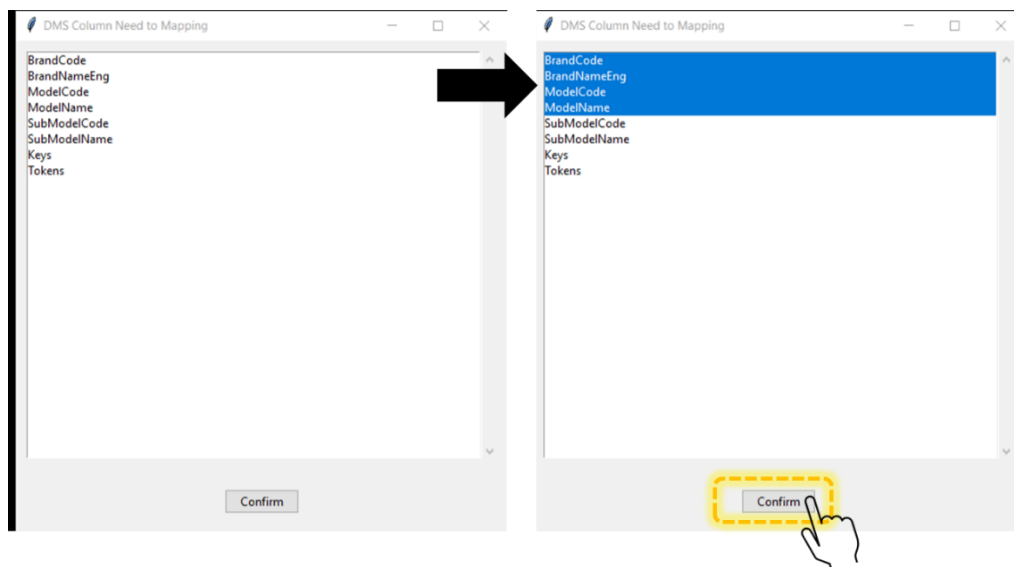


#### 4.2.3 Start Matching File

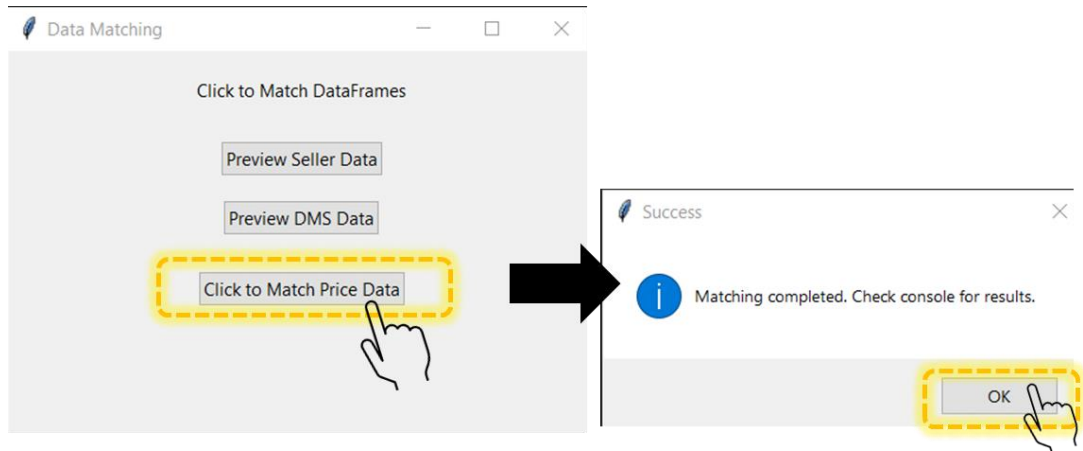
- Choose the columns, click the "Confirm" button. This will initiate the 'Token Extraction' phase to add more accuracy. For example, select the columns labeled Brand and Model.



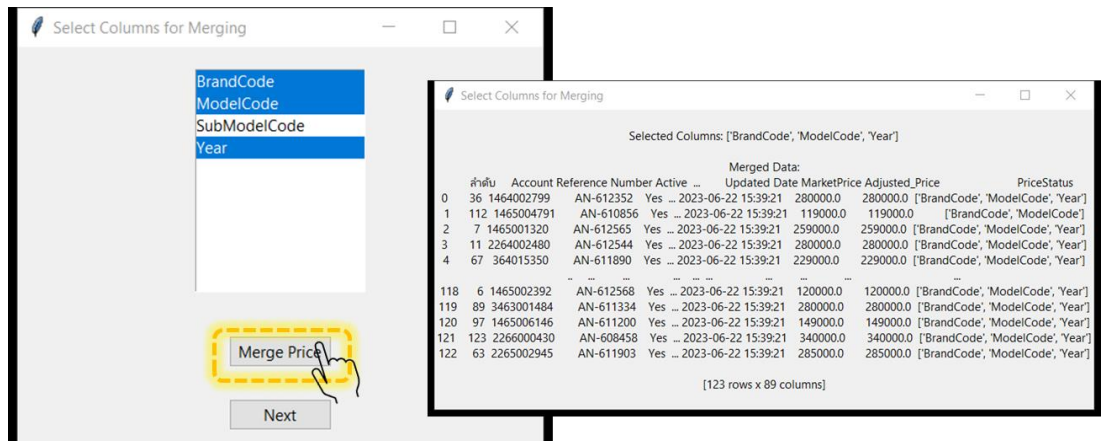
- Select column name for merging both the wording and the code from the DMS file. Then, click “Confirm” to proceed with the price-matching process. Moving forward, ensure to select both the Brand and Model based on their respective names and codes.



- Click to Match price Data button when matching completed will display window. Then, click “OK” button to next process.

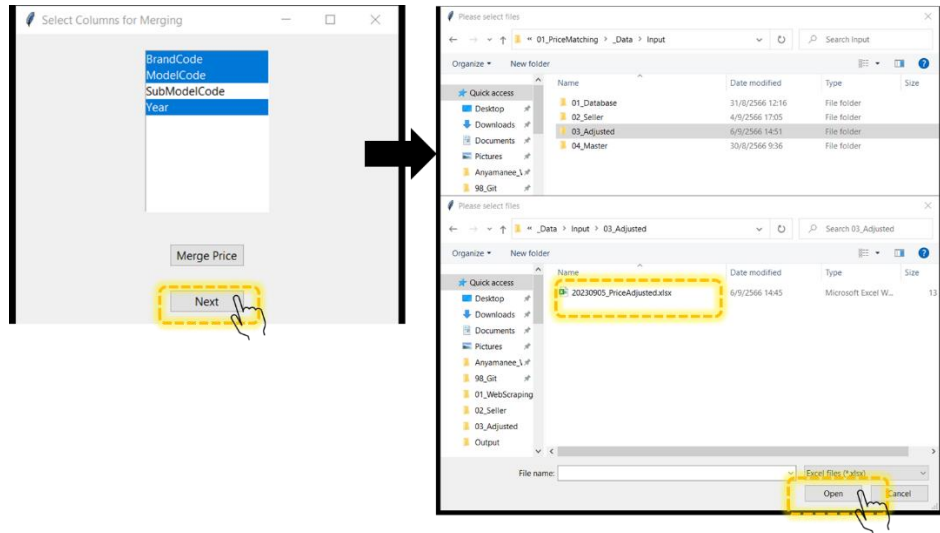


- Select column name and click “Merge Price” button to merge price with seller file.



#### 4.2.4 Adjust Pricing File

- Click “Next” button to select (yyyyymmdd)\_PriceAdjust.xlsx file.

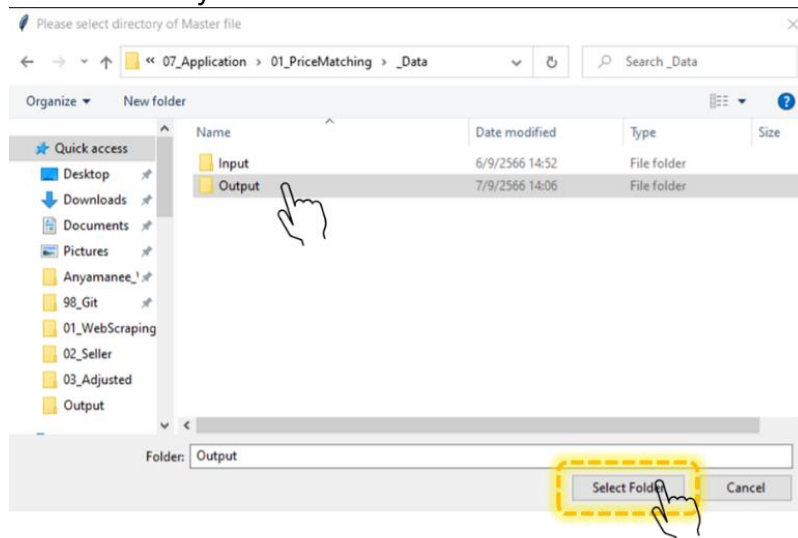


Example of Adjusted Price Template File:

Grade	Brand	Model	SubModel	Discount/Addition
1	-	-	-	-15
2	-	-	-	-10
3	-	-	-	-5
3.5	-	-	-	-5
99	-	-	-	-20
B2	-	-	-	-25
R	-	-	-	-30
1	TOYOTA	VIOS	-	0
2	TOYOTA	VIOS	-	0
3	TOYOTA	VIOS	-	0
99	TOYOTA	CITY	-	0
R	TOYOTA	CITY	-	0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

#### 4.2.5 Saving File

- Select directory to save file.



## 5. Result

In the price matching program, the system will generate a comprehensive result detailing the adjusted prices. This result is derived by comparing your seller data with the master database, factoring in all the priority and mapping specifications you've set.

Downloads > ProgramTest > PriceMatching_Program_V1.1 > _Data > Output		
Name	Date modified	Type
01_TestOutput	7/9/2566 16:45	File folder
20230907_222658_vendor_estprice.csv	7/9/2566 22:34	Microsoft Excel Co...

The output file will typically have the following columns:

Market Price	Price as listed from market price (website).
Adjusted Price	Price after applying the criteria from the Adjust Pricing File
Price Status	Indicates if a match was found in the market price data and what criteria were applied.

															NEW ADDED COLUMNS		
GRP Brand Model	Auto Type	Chassis No	Engine No	License No	Model Year	Year	Color	Gear	CC	RB Whole	New Car P	RB Price L	RB Price L	Market Price	Adjusted Price	Price Status	
CHEVROLE COLORA L PU		MMM142C APFG1208	4718		2012	2012	ดง	M	2499	165500	594000	165500	165500	280000	280000	['BrandCo	
CHEVROLE COLORA L PU		MMM142E APHG1134	4097		2011	2011	ดง	M	2499	182500	688000	182500	182500	119000	83300	['BrandCo	
CHEVROLE COLORA L PU		MMM142M A9JG1309	9025		2013	2013	ดง	M	2776	245500	852000	245500	245500	259000	259000	['BrandCo	
CHEVROLE COLORA L PU		MMM142M APMG1207	62		2012	2012	ดง	M	2776	247000	852000	247000	247000	280000	280000	['BrandCo	
FORD FOCUS Spr PS		MPB1X0M) MGD8	CY12	7569	2012	2012	ดง	A	1999	190000	1079000	190000	190000	229000	229000	['BrandCo	
FORD FOCUS Spr PS		MPB1X0M) MGD8	DR4	4038	2013	2013	ดง	A	1999	199500	1079000	199500	199500	210000	210000	['BrandCo	
FORD RANGER H PU		MNBD520) WLAT-116	8500		2010	2010	ดง	M	2499	198500	699000	198500	198500	299000	299000	['BrandCo	
HONDA ACCORD E PS		MRHCP16) R20A39P0	8236		2009	2009	ดง	A	1997	245500	1265000	245500	245500	229000	171750	['BrandCo	
HONDA BRIO Ama PS		MRHDF16) L12B3320	3	7712	2015	2015	ดง	A	1198	191000	493000	191000	191000	100000	100000	['BrandCo	
HONDA CITY S i-V PS		MRHGM26 L15A7671	720		2012	2012	ดง	A	1497	195000	599000	195000	195000	207000	207000	['BrandCo	
HONDA CITY S i-V PS		MRHGM26 L15A7695	2763		2013	2013	ดง	A	1497	207000	599000	207000	207000	210000	210000	['BrandCo	
HONDA CITY V CN PS		MRHGM26 L15A7697	2	3122	2013	2013	ดง	A	1497	202500	706000	202500	202500	210000	210000	['BrandCo	
HONDA CITY V i-V PS		MRHGM25 L15A7AP7	3796		2010	2010	ดง	A	1497	166000	619000	166000	166000	210000	210000	['BrandCo	
HONDA CITY V i-V PS		MRHGM26 L15A7691	1	5114	2013	2013	ดง	A	1497	207000	646000	207000	207000	210000	210000	['BrandCo	
HONDA CITY V i-V PS		MRHGM26 L15A7AP8	9085		2010	2010	ดง	A	1497	166000	619000	166000	166000	210000	147000	['BrandCo	
HONDA CITY ZX V PS		MRHGD86) L15A17P0	194		2007	2007	ดง	A	1497	98500	589000	98500	98500	109000	109000	['BrandCo	
HONDA CITY ZX E PS		MRHGD86) L15A16P0	4685		2006	2006	ดง	A	1497	101500	681000	101500	101500	115000	80500	['BrandCo	
HONDA CITY ZX S PS		MRHGD85) L15A16P1	2501		2006	2006	ดง	M	1497	94500	598000	94500	94500	115000	115000	['BrandCo	
HONDA CIVIC S i-V PS		MRHFD16) R18A18P0	4818		2010	2010	ดง	A	1799	212000	836000	212000	212000	225000	225000	['BrandCo	
HONDA CR-V E SV		MRHRD58) K20A-100E	1454		2003	2003	ดง	A	2000	89500	1216000	89500	89500	145000	145000	['BrandCo	
ISUZU D-Max PU		MP1TFR87 RZ4EUC3	ns 4286		2019	2019	ดง	A	1898	609500	990000	609500	609500	284000	284000	['BrandCo	
ISUZU D-Max PU		MP1TFR87 RZ4EUC8	ns 1979		2022	2022	ดง	M	1898		693000			429000	429000	['BrandCo	
ISUZU D-Max PU		MP1TFR87 RZ4EUC3	ns 3679		2022	2022	ดง	M	1898	442000	691000	442000	442000	429000	429000	['BrandCo	
ISUZU D-Max PU		MP1TFR87 RZ4EUC3	ns 4595		2020	2020	ดง	M	1898	393000	688000	393000	393000	379000	379000	['BrandCo	