PSIT Project Module Tutorial

Beginning

First, download the module file "project_module.py" from https://goo.gl/PMpp2L. Make sure to save this module file in the same directory of your work file.

Importing

After setting up files and their location, type this line of code at the head of your Python file.

```
from project_module import project
```

If you wish to shorten the module name when calling module functions, you may add "as <name>" at the end of the line. For example:

```
from project_module import project as prayut
```

Conversion: Platforms to platform types

Converting platforms to platform types in a DataFrame can be done by using "project.platform_convert_df()" module function. For example:

```
df_converted = project.platform_convert_df(data_frame)
```

This will return a converted DataFrame to a variable named 'df_converted', and this list variable will be ready to be used for analysis.

Special case: Missing year data

If you have filtered some data and get something like.. [[1980, 0.44], [1981, 0.89], [1982, 1.12], [1985, 1.20], [1988, 2.85], [1990, 3.65], [1991, 3.66], ...]. You will see that the some of the year data are missing. You can use "project.fill_missing_year()" module function to fill the missing year data with 0. For example:

```
data_list = project.platform_convert_df(data_list)
```

This will return back data_list with all years from 1980 to 2016. Any previous missing years will have 0 as its data. This will also helps removing year 2017 or later and its data from the data list.