**Wallstreet\_Stocks\_Analysis**

**Overview of Project: -**

Performing analysis on stock data to find out which stock is good for investment based total volume and return for particular year .

**Results:**

stock performance between 2017 and 2018:-

|  |  |
| --- | --- |
| **2017** | **2018** |
|  |  |
| For year 2017 almost all stocks gave positive return except only ticker”TERP” | For year 2018 almost all stocks gave negative return except tickers “ENPH” and “RUN” |
| As per analysis I can suggest ENPH and RUN for investment because both stocks gave good positive result with good volume. | |
| Not all stocks with high total\_volume gave good results because other global parameters also affect the performance of stock. | |

Comparison for execution times of the original script and the refactored script.

|  |  |
| --- | --- |
| Execution time of refactoring code for 2017 | Execution time of refactoring code for 2018 |
| Execution time of original code for 2017 | Execution time of original code for 2018 |

Above images shows that time required to execute refactor code is less compare to time required to execute original code.

**Summary:-**

Advantages or disadvantages of refactoring code

Advantages:-

* Easy to understand
* Less execution time
* Easier to find and fix bugs
* Good to extend capabilities

Disadvantages:-

* Time consuming
* Introduce new bugs
* Expensive and risky
* I refactored original VBA\_Challange script and faced advantages and disadvantages as follow:-
* During refactoring combined all different macro from original VBA \_Challange script in to single Macro so its easy to read and understand and also less execution time.
* After refactoring its easy to find any error because code is straight forward and well managed.
* We can easily extend its functionalities for example if we want cell background color for header row than we can do it easily by adding single statement.
* Refactoring is time consuming because same code we used to get better performance.
* If deadline is near than refactoring is risky .
* Sometimes refactoring is introduce new bugs for example when I was refactoring original VBA\_Challange I faced overflow error evenif same code copy pasted from original script to refactoring script.