# Assignment Project Exam Help

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### Today's Class

# Assignment Project Exam Help

- https://eduassistpro.github.
- ► CW Q1 Hints: datenum(.)

## Input/Output

```
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```

```
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```

## xlsread(.)

# Assispenting plant of the part of the first tells and street the control of the part of th

heet

- https://eduassistpro.github.
- filename sheet range
  data = xlsread('Stock.xls','P
- \*\* Areal C) igners of oulgrays of unassist production of numeric data. Also any normum assigned as NaN (Not-a-Number element).
- ► [num,txt,raw] = xlsread(.) store the entire worksheet in raw, all numeric data in num and text data in txt

## xlswrite(.)

- xlswrite(filename, M) writes matrix M to the first worksheet in the
- https://eduassistpro.github. rectangular region specified by range
- Filename, sheet and range are strings en

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#### Exercises 1

# Assignment Price into MATLAB with a matrix called data.

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each stock, naming stock\_return\_

respectively write the returns into a chews exet file and u\_assist\_pr

two new sheets named returns\_1 a returns\_2

#### Exercises 1

```
data = xlsread('Stock.xls', 'Price');

* https://eduassistpro.github.

* stock_return_1 = tick2ret(stock_price_1);

* stock_return_2 = tick2ret(stock_price_1);

* stock_return_2 = tick2ret(stock_price_1);

* xlswrite('Returns.xls', stock_retur_1);

* xlswrite('Returns.xls', stock_retur_2);

* xlswrite('Returns.xls', stock_return_2);

* xlswrite('Returns.xls', stock_return_2);

* xlswrite('Returns.xls', stock_return_2);

* xlswrite('Returns.xls', stock_return_2);

* xlswrite('Returns.xls',
```

## csvread(.)

# Assignment name respective for the filename and stored the data in M.

- https://eduassistpro.github.
- ► Hint: row (col) = actu lumn) number -1
- MACA Control of the Artificial Week natredurants assist\_preserved to the Artificial Week natredurants assist\_preserved to the Artificial Week natredurants assist\_preserved to the Artificial Week natredurants as a second to the Artificial Week natredurant as a second to the Artificial Week natredurants as a second to
- ► Eg. M = csvread('data.csv',0,0,[0,0,6,1]) reads data in range of 'A1' to 'B7' from file data.csv

## csvwrite(.)

# Assignment Project Exam Help which is a string enclosed in single quotes.

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- Note1: xlsread and xlswrite may not work with the Mac/Linux system. Suggestion: save .xls file as .csv → Use cs
- No. 2: estype and and as which the little of the little of

#### readtable and writetable

```
Assign Tereatable (filename, 'Format', format_specs) create Print Tereatable ('Price.xls', 'Format', '%D%s%f%d')
```

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▶ '%' stands a column indicator: 4' our data file.

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- ▶ 3rd column is floating number ('%
- ▶ 4th column is integer format ('%d')
- writetable(your\_table, filename) saves the Matlab table to an external data file



#### save and load

# Assignment Project, Exameted p variables (var1, var2, ...) in the current workspace to the matfile

- https://eduassistpro.github.
- work with data onto Other prefrancing a assist property data from matrile, so the porta assist property data in our matrile, so the porta assist.

#### Exercises 2 a

# Assignment Project Exam Help Observe the data format of file AAPL.csv, read the data using

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  - still use csvread() Ausel and the prime du assist prime du assist

#### **Exercises 2.a**

```
aapl_csv = csvread('AAPL.csv');

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aapl_csv = csvread('AAPL.csv',1,1)

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```

#### Exercises 2.b

# Assignation of the content of the co

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(Ensure the size of returns matches with length of t

- SAddaWeChatectu\_assistv\_pr
- ► Save the table as AAPL.mat matfile. Clear the current workspace, and then load the dataset back to our workspace using load().

### **Exercises 2b**

load('AAPL.mat')

## **Summary**

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- https://eduassistpro.github.i
  - string, xlsread and readtable allo

## Simple Time Series Plot

# Assignment Project Exam Help Create a simple time-series plot of the adjusted close price of AAPL

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- f
- plot(aapl.Date, aapl.AdjClose)
- 3 legend('Adjusted Close Price', 'L
- \* \*\*WeChat edu\_assist\_p

## Simple Time Series Plot

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#### **SubPlot**

- ▶ Now create a figure with 2 sub-plot on AAPL
- ► The top panel plots the time-series of the adjusted close price

```
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```

```
subplot (2,1,1)

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subplot (2,1,2)
subplot (2,1,2
```

- subplot (m, n, p) create a figure with various plots
  - ► The actual plot codes of plotting comes after subplot (m, n, p)
  - m, n define the plots layout structure: m rows n column panels.
  - p defines which sub-plot is defined in the following codes.

#### **SubPlot**

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### Hint: CW Q1-How to separate the data

▶ Option 1: find the index of the target cut-off date manually and use

```
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```

```
data_is = aapl(1:cut,:); % re
data_is = XXII(cxtFU1end,:);
```

- <del>Add WeChat edu\_assist</del>\_pr
- cut is the index number for the target cut-off dat
- ▶ aapl(1:cut,:) reads row 1 up to row cut as in-sample data;
- ▶ aapl(cut+1:end,:) reads row cut+1 up to the end row as out-of-sample data.



## Hint: CW Q1-How to separate the data

```
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* if [data, txt] = x1sread(.). e.g., exercise 1

2 t_string = aapl_txt(2:end,1); % read date string

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* data_oos = aapl_num(cut+1:end,:);
```

- oderund) coveredate thingstinted u\_assist\_precessary for time series analysis and figure plot
- ► The second input 'dd/mm/yyyy' defines the date format in the data.
- target\_date is the numerical date format for the cut-off date.



## **TakeAway**

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