

## Lab 14 Apply to Application 2

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**Note:** The underlined text is an input data.

All assignments must use library `ujjwal/currency-converter`.

The output may be **different** because of current exchange rate.

1. Write program that converts Thai Baht (**THB**) to Chinese Yuan (**CNY**) for data in the given file.

The file name comes from command-line arguments with the following format.

```
number_of_data
data1
data2
...
```

Example input file: `ass-01-data.txt`

```
5
12.3
100000
75.5
1234
100
```

**Manual:**

```
Usage: php ass-01.php [options] [--] file_name
Options:
  -h|--help          print this manual.
Arguments:
  file_name          specific file name with following format.
                    number_of_data
                    data1
                    data2
                    ...
```

**Remark:** if there are invalid arguments, then print

```
Invalid arguments!!!
Usage the following command for help.
php ass-01.php -h
```

**Example 01:** `php ass-01.php --help`

```
Usage: php ass-01.php [options] [--] file_name
Options:
  -h|--help          print this manual.
Arguments:
  file_name          specific file name with following format.
                    number_of_data
                    data1
                    data2
                    ...
```

**Example 02:** `php ass-01.php`

```
Invalid arguments!!!
Usage the following command for help.
php ass-01.php -h
```

**Example 03:** `php ass-01.php ass-01-data.txt`

	THB	CNY
	12.30	2.64
100,000.00		21,479.43
	75.50	16.22
1,234.00		265.06
100.00		21.48

**Example 04:** `php ass-01.php ass-01-not_existing.txt`

```
Cannot open file 'ass-01-not_existing.txt'!!!
```

2. Write program that converts Thai Baht (**THB**) to Chinese Yuan (**CNY**), United States dollar (**USD**), or Euro (**EUR**) from given range (**start end**) specifying from command-line arguments.

Manual:

```
Usage: php ass-02.php [options] [--] start end
Options:
  -s|--step=increasing  specific increasing value.
                        if not specified increase by 1.
  -t|--to=currency       convert to currency, case-insensitive:
                        CNY for Chinese Yuan.
                        USD for United States dollar.
                        EUR for Euro.
                        if not specified convert to Chinese Yuan.
  -h|--help              print this manual.
Arguments:
  start                  specific starting.
  end                    specific maximum (show value <= end).
                        invalid if start > end.
```

**Remark:** if there are invalid arguments, then print

```
Invalid arguments!!!
Usage the following command for help.
php ass-02.php -h
```

**Example 01:** php ass-02.php -h

```
Usage: php ass-02.php [options] [--] start end
Options:
  -s|--step=increasing  specific increasing value.
                        if not specified increase by 1.
  -t|--to=currency       convert to currency, case-insensitive:
                        CNY for Chinese Yuan.
                        USD for United States dollar.
                        EUR for Euro.
                        if not specified convert to Chinese Yuan.
  -h|--help              print this manual.
Arguments:
  start                  specific starting.
  end                    specific maximum (show value <= end).
                        invalid if start > end.
```

**Example 02:** php ass-02.php

```
Invalid arguments!!!
Usage the following command for help.
php ass-02.php -h
```

**Example 03:** `php ass-02.php 5 1`

```
Invalid arguments!!!  
Usage the following command for help.  
php ass-02.php -h
```

**Example 04:** `php ass-02.php 1 5`

THB	CNY
1.00	0.21
2.00	0.43
3.00	0.64
4.00	0.86
5.00	1.07

**Example 05:** `php ass-02.php --step=0.5 -- 1 5`

THB	CNY
1.00	0.21
1.50	0.32
2.00	0.43
2.50	0.54
3.00	0.64
3.50	0.75
4.00	0.86
4.50	0.97
5.00	1.07

**Example 06:** `php ass-02.php -tUSD --step=0.5 -- 1 5`

THB	USD
1.00	0.03
1.50	0.05
2.00	0.06
2.50	0.08
3.00	0.10
3.50	0.11
4.00	0.13
4.50	0.14
5.00	0.16

**Example 06:** `php ass-02.php -tX --step=0.5 -- 1 5`

```
Invalid arguments!!!  
Usage the following command for help.  
php ass-02.php -h
```