

## Advanced Programming

### Exercise: More practice on options

#### Task 1

Write a program which takes one variable as argument and an option with a new name for the variable.

- The program should then rename the variable to the new name.
- Switch the syntax: the program should take the new name as argument and the existing variable as option.

Example:

a.

```
. sysuse auto, clear
(1978 Automobile Data)

. describe price*

      storage   display
variable name  type   format
-----
price          int    %8.0gc

. task1 price, new(price_2)

. describe price*

      storage   display
variable name  type   format
-----
price_2        int    %8.0gc
```

b.

```
. sysuse auto, clear
(1978 Automobile Data)

. describe price*

      storage   display
variable name  type   format
-----
price          int    %8.0gc

. task1 price_2, old(price)

. describe price*

      storage   display
variable name  type   format
-----
price_2        int    %8.0gc
```

## Task 2

Write a program which takes numeric variables as argument and a number as option. The program should then replace the values of these variables by their current values times the number specified as option.

Example:

```
. sysuse auto, clear  
(1978 Automobile Data)
```

```
. su price weight
```

Variable	Obs	Mean	Std. Dev.	Min	Max
price	74	6165.257	2949.496	3291	15906
weight	74	3019.459	777.1936	1760	4840

```
. task2 price weight, multiply(3)  
variable price was int now long  
(74 real changes made)  
(74 real changes made)
```

```
. su price weight
```

Variable	Obs	Mean	Std. Dev.	Min	Max
price	74	18495.77	8848.488	9873	47718
weight	74	9058.378	2331.581	5280	14520