

Advanced Programming

Exercise: More practice on syntax

Task 1

Write a program which takes a list of numeric variables as input.

- The program should describe and summarize these variables (similar to task 1 of the introductory programming).
- Amend the program such that the user can specify if/in conditions. The summary statistics should only be run for the observations which fall under these conditions.

Example:

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

```
. task1 price weight
```

variable name	storage type	display format	value label	variable label
price	int	%8.0gc		Price
weight	int	%8.0gc		Weight (lbs.)

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

```
. task1 price weight if foreign==1
```

variable name	storage type	display format	value label	variable label
price	int	%8.0gc		Price
weight	int	%8.0gc		Weight (lbs.)

Variable	Obs	Mean	Std. Dev.	Min	Max
price	22	6384.682	2621.915	3748	12990
weight	22	2315.909	433.0035	1760	3420

Task 2

Write a program which takes anything as input. The program will count the number of words typed in and displays them (similar to task 3 of introductory programming)

Example:

```
. task2 Today is a nice day
Word count is 5
Today
is
a
nice
day
```