

camelCase



Source: en.wikipedia.org/wiki/Camel_case

In some languages, it's common to use [camel case](#) (otherwise known as “mixed case”) for variables' names when those names comprise multiple words, whereby the first letter of the first word is lowercase but the first letter of each subsequent word is uppercase. For instance, whereas a variable for a user's name might be called `name`, a variable for a user's first name might be called `firstName`, and a variable for a user's preferred first name (e.g., nickname) might be called `preferredFirstName`.

Python, by contrast, [recommends snake case](#), whereby words are instead separated by underscores (`_`), with all letters in lowercase. For instance, those same variables would be called `name`, `first_name`, and `preferred_first_name`, respectively, in Python.

In a file called `camel.py`, implement a program that prompts the user for the name of a variable in camel case and outputs the corresponding name in snake case. Assume that the user's input will indeed be in camel case.

Hints

- Recall that a str comes with quite a few methods, per docs.python.org/3/library/stdtypes.html#string-methods.
 - Much like a list, a str is “iterable,” which means you can iterate over each of its characters in a loop. For instance, if `s` is a str, you could print each of its characters, one at a time, with code like:

```
for c in s:  
    print(c, end="")
```

How to Test

Here's how to test your code manually:

- Run your program with `python camel.py`. Type `name` and press Enter. Your program should output:

```
name
```

- Run your program with `python camel.py`. Type `firstName` and press Enter. Your program should output:

```
first_name
```

- Run your program with `python camel.py`. Type `preferredFirstName` and press Enter. Your program should output

```
preferred_first_name
```

Demo

```
$ python camel.py
camelCase: name
snake_case: name
$ python camel.py
camelCase: firstName
snake_case: first_name
$ python camel.py
camelCase: preferredFirstName
snake_case: preferred_first_name
$
```

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