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hoffm386 fix objectives spacing   ···   on Aug 1   ⏱ 7

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Creating Functions - Lab

Introduction

As you know, we can use functions to name snippets of our code, thus making our code more expressive. We can also use functions to allow us to reuse our code. In this lab we will practice using functions for both of those purposes.

Objectives

You will be able to:

- Declare and use a basic function

Instructions:

Writing our first functions

Imagine we are creating a list of travel destinations -- which can really turn out to be a full time job if we like to travel. We have our list of `travel_destinations` which we assign below. Write a function called `number_of_destinations()` that returns the number of destinations we have on our list.

```
travel_destinations = ['argentina', 'mexico', 'italy', 'finland', 'canada', 'croatia
# define function here
def number_of_destinations():
    return len(travel_destinations)
```

> Below, remove the first `#` to uncomment the following line(s) of code and then press `shift` + `enter` to run the cell

```
number_of_destinations()
```

```
6
```

Now write another function called `next_up()` that returns our first destination (the destination with the lowest index), in the `list_of_destinations` list.

```
# define function hed
def next_up():
    return list_of_destinations[0]
```

Next, run your new function

```
list_of_destinations = ['argentina', 'canada', 'croatia']
next_up()
```

```
'argentina'
```

Ok, now write a function called `favorite_destination()` that returns the string `'madagascar'`.

```
# define function here
def favorite_destination():
    return "madagascar"
```

Next, run your new function

```
favorite_destination()
```

```
'madagascar'
```

Again, let's declare a list called `favorite_destinations` . Write a new function called `add_favorite_destination()` that adds the string `'madagascar'` to the end of `favorite_destinations` and also returns the string `'madagascar'` .

```
# define function here
def add_favorite_destination():
    favorite_destinations.append(favorite_destination())
    return favorite_destination()
```

Next, run your new function

```
favorite_destinations = ['argentina', 'mexico', 'italy', 'finland', 'canada', 'croat

add_favorite_destination()

favorite_destinations[-1] # 'madagascar'
```

```
'madagascar'
```

Now let's write another function called `capitalize_countries()` which iterates through the list of `capitalized_destinations` and capitalizes the first letter of each word. It should return a list of capitalized destinations.

```
capitalized_destinations = ['argentina', 'mexico', 'italy', 'finland', 'canada', 'cr
# define function here
def capitalize_countries():
    new_list = []
    for country in capitalized_destinations:
```

```
        new_list.append(country.capitalize())
    return new_list
```

Next, run your new function

```
capitalize_countries()
```

```
['Argentina', 'Mexico', 'Italy', 'Finland', 'Canada', 'Croatia']
```

Great! Now if someone adds a country that is lowercased to our list of destinations, we can simply call our function again to capitalize each of the destinations in the list.

Summary

Great job! In this lab we were able to get practice both creating and returning values from functions.

Releases

No releases published

Packages

No packages published

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Languages

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