

**Tuesday Oct 22, 2024**

In-class Handout

COSC 101C Intro to Computing I

Prof. Forrest Davis

Name:

Discuss and complete the following questions with the person nearest you. You **may** be asked to share your thoughts with the class.

1. Complete the following function:

```
def phone(number:int) -> str:
    """
    Converts a 10-digit integer into a phone number XXX-XXX-XXXX

    Parameters:
        number (int): 10-digit integer representing a phone number
    Returns:
        phone_num (str): String formatted phone number

    For example, phone(3152886298) must return '315-288-6298'
    """
```

2. Complete the following function.

```
def date(number: str) -> str:
    """
    Converts an 8-digit string into MM/DD/YYYY

    Parameters:
        number (str): 8 digit string representing a date (MMDDYYYY)
    Returns:
        date_str (str): 8 digit string MM/DD/YYYY

    For example, date("10272021") must return '10/27/2021'
    """
```

3. Write a function called `capitalize` that takes a location (a string) and returns the location with a properly capitalized city name and country code. For example:

- `capitalize("london, uk")` should return "London, UK"
- `capitalize("los angeles, us")` should return "Los Angeles, US"

Hint: Consider the string methods `title()`, `upper()`, and `find()`. For example,

- `"cats two".title()` returns `Cats Two`
- `"cats".upper()` returns `CATS`
- `"cats ok".find("s")` returns `3`