Async Exercises

In this exercise, you will use async/await to work with external APIs in-bulk.

We will use the Talk Python weather API to access the weather for multiple locations. Doing this in serial (synchronous code) can be somewhat slow. Using async will allow us to get results for all locations at once.

Steps

- Create a new folder/project where you can write some code.
- Create a `main.py` file to write your code in.
- Create a virtual environment, activate it, then install `httpx` (needed for async web calls).
- We want the weather for the following locations:
  - Portland, OR
  - Seattle, WA
  - La Jolla, CA
  - Phoenix, AZ
  - New York, NY
  - Boston, MA
- To access the weather for any location, we'll use the URL:

```
https://weather.talkpython.fm/api/weather?
city=CITY&state=STATE_ABBREVIATION&country=US&units=imperial
# Units imperial or metric
```

- Write a function that takes the city and state to get the weather. This should be an ***async*** method. You will also need to pull the relevant information out of the dictionary you receive from the API. Recall that async methods look like:

```
async def some_function(arg1, arg2):
    sync_code()
    await async_code()

    return value
```

- To implement this code, you'll need to use **httpx**. The code should be quite similar to what we did accessing the titles of Talk Python episodes. So feel free to leverage the structure and examples from our **live code here**.

Solutions

The solution (*a solution*) is in the `./solution` folder.