

Python Homework Assignment

Lists, Indexing, and Data Practice

Part 1: Movie Collection (25 mins)

Create a list called `my_movies` that includes 5 of your favorite movies.

Tasks:

1. Print the first, third, and last movie using positive indexing.
2. Print the last, second-to-last, and first movie using negative indexing.
3. Use `.append()` to add two more movies to your list.
4. Use `.index()` to find the index of one of the newly added movies and print:
"The index of [MovieName] is: [index]"
5. Print a message like:
"My top movie pick is [first movie], but I also love [last movie]."

Part 2: Dream Destinations (20 mins)

Create a list called `destinations` with 6 places you'd love to visit.

Tasks:

1. Print the total number of destinations using `len()`.
2. Print the destination at index 2 and the last destination using negative indexing.
3. Replace the third destination with a new one.
4. Add one more destination using `.append()`.
5. Print all destinations in a neat list like:
 - Paris
 - Tokyo
 - New York
 - ...

Part 3: Daily Expenses Tracker (15 mins)

Create a list called `expenses` with 5 numbers (integers or floats), each representing your spending over 5 days.

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Tasks:

1. Print the highest and lowest expense using ``max()`` and ``min()``.
2. Print the total spending using ``sum()``.
3. Add two more expenses using ``append()``.
4. Print the updated list.
5. Print this message using indexing:
"On day 3, I spent \$[amount]. On the last day, I spent \$[amount]."

Bonus: Create Your Own List! (Optional)

Think of a category you love - books, sports, snacks, etc.

Create a list of at least 5 items, then:

1. Add one new item.
2. Replace one item.
3. Print 3 items using indexing.
4. Print a fun sentence using values from the list.

Submission

- Submit a `.py`` file or paste your code into our class notebook.
- Make sure everything runs without errors!