Control & Collections

Objectives

- Use boolean expressions and conditions to make decisions.
- Use lists and list methods to organize data.
- Use loops to repeat and iterate over lists.

Questions

1. Conditions and logic
   a. Write a function that prints 'inside' if a number is between 0 and 10.
   b. Write a function that prints 'outside' if a number is outside of the range 0 to 10.
2. Comparing & sorting
   a. Write a function that prints the largest of three numbers x, y, and z.
   b. Write a function that prints three strings in alphabetical order. Don't use the list.sort method.
   c. Complete task (b) by putting the strings in a list and using list.sort.
3. Lists & iteration:
   a. Create a list, for example: of foods that you like!
   b. Print the first and last items of the list using the index operator.
   c. Iterate over the list with a for-loop and print each item, one per line:

```
one
two
three
```

   d. Iterate over the list with a for-loop and print each item on a single line, separated by commas:

```
one, two, three
```

   e. Iterate over a list and print a two-column tab-separated table with index and item:
      Tip: use a single range-based for loop - no need for nested loops

```
0    one
1    two
2    three
```

   f. Create a list of lists and use a nested loop to print all of the lists, one list per line.
      If you do this correctly, there will be no square brackets in your output!