

Tuples exercises

1. Write a Python program to create a tuple of numbers and print one item.
2. Write a Python program to unpack a tuple into several variables.
3. Write a Python program to add an item to a tuple at index number 2.
4. Write a Python program to convert a tuple to a string.
1. ('e', 'x', 'e', 'r', 'c', 'i', 's', 'e', 's') => 'exercises'
5. Write a Python program to find repeated items in a tuple.
6. Write a Python program to remove an item from a tuple.
7. Write a Python program to reverse a tuple.
8. Write a Python program to replace the last value of tuples in a list.

List Exercises

1. Create a list of your favorite fruits. Add another fruit to the end of the list using `append()`.
2. Create two lists of numbers, then extend the first list by adding all elements from the second list using `extend()`
3. `insert(index, item)` Start with a list of colors. Insert a new color at the second position (index 1).
4. Create a list of city names with some duplicates. Use `remove()` to delete the first occurrence of a city
5. `pop(index)` Make a list of your favorite animals. Use `pop()` to remove the animal at the third position and store it in a variable.

6. `clear()` Create a list of random numbers, then clear it using `clear()`.

Dictionary Function Exercises

1. Create a dictionary of country capitals. Use `get()` to retrieve the capital of 'France', with a default value if it's not in the dictionary.
2. Make a dictionary of programming languages and their popular frameworks. Use `keys()` to get a list of all languages.
3. Using the previous dictionary, get a list of all frameworks using `values()`.
4. Use `items()` to get a list of all key-value pairs in a dictionary representing items and their prices.
5. Create a dictionary with some initial values, and then use `update()` to add more items.
6. Remove an item from a dictionary of students by using `pop()`, then store the popped value in a variable.
7. Create a dictionary and use `clear()` to remove all items.