WRITE A python programming to create a list,a dictionary,qnd a set.perform basic operations like adding,removing,and modifying elemnts

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# Creating a list, dictionary, and set
my_list = [1, 2, 3, 4]
my_dict = {'a': 1, 'b': 2, 'c': 3}
my_set = {1, 2, 3}

# List operations
print("Original list:", my_list)

# Adding an element to the list
my_list.append(5)
print("List after adding an element:", my_list)

# Removing an element from the list
my_list.remove(2)
print("List after removing an element:", my_list)

# Modifying an element in the list
my_list[1] = 10
print("List after modifying an element:", my_list)

# Dictionary operations
print("\nOriginal dictionary:", my_dict)

# Adding a new key-value pair to the dictionary
my_dict['d'] = 4
print("Dictionary after adding a key-value pair:", my_dict)

# Removing a key-value pair from the dictionary
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del my_dict['b']
print("Dictionary after removing a key-value pair:", my_dict)

# Modifying a value in the dictionary
my_dict['a'] = 10
print("Dictionary after modifying a value:", my_dict)

# Set operations
print("\nOriginal set:", my_set)

# Adding an element to the set
my_set.add(4)
print("Set after adding an element:", my_set)

# Removing an element from the set
my_set.discard(2)
print("Set after removing an element:", my_set)

# Since sets are unordered, there's no concept of modifying an element directly
# Instead, you can remove an element and add another
my_set.discard(3)
my_set.add(5)
print("Set after modifying elements (remove 3 and add 5):", my_set)
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