Programiz Python Online Compiler

main.py

Share Run

```
my_list = [1, 2, 3, 4, 5]
print("Original List:", my_list)
my_list.append(6)
print("List after adding an element:", my_list)
my_list.remove(4)
print("List after removing an element:", my_list)
my_list[0] = 10
print("List after modifying an element:", my_list)
my_dict = {"name": "John", "age": 30, "city": "New York"}
print("Original Dictionary:", my_dict)
my_dict["country"] = "USA"
print("Dictionary after adding a key-value pair:", my_dict)
del my_dict["city"]
print("Dictionary after removing a key-value pair:", my_dict)
my_dict["age"] = 31
print("Dictionary after modifying a value:", my_dict)
my_set = {1, 2, 3, 4, 5}
print("Original Set:", my_set)
my_set.add(6)
print("Set after adding an element:", my_set)
my_set.remove(4)
print("Set after removing an element:", my_set)
my_set.update([7, 8, 9])
print("Set after updating:", my_set)
print("Is 5 in the set?", 5 in my_set)
print("Is 10 in the set?", 10 in my_set)
```

Output

Clear

```
Original List: [1, 2, 3, 4, 5]
List after adding an element: [1, 2, 3, 4, 5, 6]
List after removing an element: [1, 2, 3, 5, 6]
List after modifying an element: [10, 2, 3, 5, 6]
Original Dictionary: {'name': 'John', 'age': 30, 'city': 'New York'}
Dictionary after adding a key-value pair: {'name': 'John', 'age': 30, 'city': 'New
    York', 'country': 'USA'}
Dictionary after removing a key-value pair: {'name': 'John', 'age': 30, 'country':
    'USA'}
Dictionary after modifying a value: {'name': 'John', 'age': 31, 'country': 'USA'}
Original Set: {1, 2, 3, 4, 5}
Set after adding an element: {1, 2, 3, 4, 5, 6}
Set after removing an element: {1, 2, 3, 5, 6}
Set after updating: {1, 2, 3, 5, 6, 7, 8, 9}
Is 5 in the set? True
Is 10 in the set? False

=== Code Execution Successful ===
```