

```
a = {1,2,3,4,5}
```

```
a
```

```
{1, 2, 3, 4, 5}
```

```
b = {3,4,5,6,7}
```

```
b
```

```
a.add(7)
```

```
a
```

```
{1, 2, 3, 4, 5, 7}
```

```
c = a.copy()
```

```
c
```

```
{1, 2, 3, 4, 5, 7}
```

```
a.union(b)
```

```
{1, 2, 3, 4, 5, 6, 7}
```

```
a.intersection(b)
```

```
{3, 4, 5, 7}
```

```
a.difference(b)
```

```
{1, 2}
```

```
b.difference(a)
```

```
{6}
```

```
: b.difference(a)
: {6}
a.symmetric_difference(b)
a
: a.symmetric_difference(b)
a
: {1, 2, 3, 4, 5, 7}
a.discard(5)
a
: {1, 2, 3, 4, 7}
a.update([20,30])
a
: {1, 2, 3, 4, 7, 20, 30}
a.difference_update
a
: a.difference_update
a
: {1, 2, 3, 4, 7, 20, 30}
a
: {1, 2, 3, 4, 7, 20, 30}
a.isdisjoint(b)
a
: {1, 2, 3, 4, 7, 20, 30}
a.issubset(b)
a
: {1, 2, 3, 4, 7, 20, 30}
```

```
my_list = []

while True:
    print("\nList Operations:")
    print("1. Insert an element")
    print("2. Delete an element")
    print("3. Find an element")
    print("4. Display list")
    print("5. Exit")

    choice = int(input("Enter your choice: "))

    if choice == 1:
        element = input("Enter element to insert: ")
        my_list.append(element)
        print(f"Element '{element}' inserted.")

    elif choice == 2:
        element = input("Enter element to delete: ")
        if element in my_list:
            my_list.remove(element)
            print(f"Element '{element}' deleted.")
        else:
            print(f"Element '{element}' not found.")

    elif choice == 3:
        element = input("Enter element to find: ")
        if element in my_list:
            print(f"Element '{element}' found.")
        else:
            print(f"Element '{element}' not found.")

    elif choice == 4:
        print(f"Current list: {my_list}")
```

```
elif choice == 4:  
    print(f"Current list: {my_list}")  
  
elif choice == 5:  
    print("Exiting program...")  
    break  
  
else:  
    print("Invalid choice, please try again.")
```

List Operations:

- 1. Insert an element
- 2. Delete an element
- 3. Find an element
- 4. Display list
- 5. Exit

Enter your choice: 1

Enter element to insert: 5

Element '5' inserted.

List Operations:

- 1. Insert an element
- 2. Delete an element
- 3. Find an element
- 4. Display list
- 5. Exit

Enter your choice: 1

Enter element to insert: 12

Element '12' inserted.