

```
[2]: a={1,2,3,4,5,6}  
a
```

```
[2]: {1, 2, 3, 4, 5, 6}
```

```
[3]: b={5,6,7,8,9}  
b
```

```
[3]: {5, 6, 7, 8, 9}
```

```
[4]: a.add(10)
```

```
[5]: a
```

```
[5]: {1, 2, 3, 4, 5, 6, 10}
```

```
[6]: c=a.copy()
```

```
[7]: c
```

```
[7]: {1, 2, 3, 4, 5, 6, 10}
```

```
[8]: a
```

```
[8]: {1, 2, 3, 4, 5, 6, 10}
```

```
[9]: a.union(b)
```

```
[9]: {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
```

---

```
[9]: {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
```

```
[10]: a.intersection(b)
```

```
[10]: {5, 6}
```

```
[11]: a.difference(b)
```

```
[11]: {1, 2, 3, 4, 10}
```

```
[12]: b.difference(a)
```

```
[12]: {7, 8, 9}
```

```
[13]: a.symmetric_difference(b)
```

```
[13]: {1, 2, 3, 4, 7, 8, 9, 10}
```

```
[14]: a.discard(7)
```

```
[15]: a
```

```
[15]: {1, 2, 3, 4, 5, 6, 10}
```

```
[16]: a.update([7,11])
```

```
[17]: a
```

```
[17]: {1, 2, 3, 4, 5, 6, 7, 10, 11}
```

```
[20]: a.difference_update
```

```
[20]: a.difference_update
```

```
[20]: <function set.difference_update(*others)>
```

```
[21]: a
```

```
[21]: {1, 2, 3, 4, 5, 6, 7, 10, 11}
```

```
[22]: a.isdisjoint(b)
```

```
[22]: False
```

```
[23]: a.issubset(b)
```

```
[23]: False
```

```
[24]: a.issuperset(b)
```

```
[24]: False
```

```
[25]: c={1,2,3}  
c
```

```
[25]: {1, 2, 3}
```

```
[26]: d={1,2,3,4,5,6}  
d
```

```
[26]: {1, 2, 3, 4, 5, 6}
```

```
[30]: c.isdisjoint(d)
```

```
[26]: d={1,2,3,4,5,6}  
      d
```

```
[26]: {1, 2, 3, 4, 5, 6}
```

```
[30]: c.isdisjoint(d)
```

```
[30]: False
```

```
[31]: c.issubset(d)
```

```
[31]: True
```

```
def list_operation():
    my_list = []

    while True:
        print("\nList Operation")
        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:
```

```
        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 == 5:
        break

    else:
        print("Invalid option, please try again")
```

list\_operation()

```
list_operation()
```

List Operation

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

List Operation

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

Enter your choice: 2

Enter element to delete: 3

Element '3' not found

List Operation

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

Enter your choice: 5