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

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

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

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

[4]:
```
a.add(7)
a
```

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

[5]:
```
c=a.copy()
c
```

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

[6]:
```
a
```

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

[7]:
```
a.union(b)
```

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

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

[9]:
```
{3, 4}
```

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

[10]:
```
{1, 2, 7}
```

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

[11]:
```
{5, 6}
```

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

[13]:
```
{1, 2, 5, 6, 7}
```

[18]:
```
a.discard(2)
a
```

[18]:
```
{1, 3, 4, 7, 20, 30}
```

[19]:
```
a.update([20,30])
a
```

[19]:
```
{1, 3, 4, 7, 20, 30}
```

```
a.difference_update
```

[20]:
```
a
```

[20]:
```
{1, 3, 4, 7, 20, 30}
```

[21]:
```
b
```

[21]:
```
{3, 4, 5, 6}
```

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

[22]:
```
False
```

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

[23]:
```
False
```

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

[24]:
```
False
```

[32]:
```
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 the 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: ")
```

```
        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:
            print("Exiting program...")
            break

        else:
            print("Invalid choice, please try again")


list_operation()
```

```
List Operation:
1. Insert an element
2. Delete an element
3. Find an element
4. Display the list
5. Exit
Enter your choice:  1
Enter element to insert:  11
Element '11' inserted
```

```
List Operation:
1. Insert an element
2. Delete an element
3. Find an element
4. Display the list
5. Exit
Enter your choice:  2
Enter element to delete:  12
Element '12' not found

List Operation:
1. Insert an element
2. Delete an element
3. Find an element
4. Display the list
5. Exit
Enter your choice:  5
Exiting program...
```