```
Python 3.15.0a4 (tags/v3.15.0a4:43cd277, Jan 13 2026, 11:05:50) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
a={1,2,3,4,5}
b={4,5,6,7,8}
a.union(b)
{1, 2, 3, 4, 5, 6, 7, 8}
a.difference(b)
{1, 2, 3}
b.difference(a)
{8, 6, 7}
a.symmetric_difference(b)
{1, 2, 3, 6, 7, 8}
b.symmetric_difference(a)
{1, 2, 3, 6, 7, 8}
a.intersection(b)
{4, 5}
```

```
a={1,2,3,4,5}
b={3,4,5,6}
a
{1, 2, 3, 4, 5}
b
{3, 4, 5, 6}
a.add(7)
a
{1, 2, 3, 4, 5, 7}
c=a.copy()
c
SyntaxError: multiple statements found while compiling a single statement
c=a.copy()
c
{1, 2, 3, 4, 5, 7}
a.union(b)
{1, 2, 3, 4, 5, 6, 7}
a.discard(5)
a
{1, 2, 3, 4, 7}
a.update([20,30])
a
{1, 2, 3, 4, 20, 7, 30}
a.difference_update(b)
a
{1, 2, 20, 7, 30}
a
{1, 2, 20, 7, 30}
a.iddisjoint(b)
Traceback (most recent call last):
  File "<pyshell#25>", line 1, in <module>
    a.iddisjoint(b)
AttributeError: 'set' object has no attribute 'iddisjoint'. Did you mean: 'isdisjoint'?
a.isdisjoint(b)
True
a.issubset(b)
False
a={1,2,3}
b={1,2,3,4,5,6}
a.issubset(b)
True
a.issperset(b)
Traceback (most recent call last):
  File "<pyshell#31>", line 1, in <module>
    a.issperset(b)
AttributeError: 'set' object has no attribute 'issperset'. Did you mean: 'issuperset'?
a.issuperset(b)
```

```
{1, 2, 3, 6, 7, 8}
b.symmetric_difference(a)
{1, 2, 3, 6, 7, 8}
a.intersection(b)
{4, 5}
a={1,2,3,4,5}
b={3,4,5,6}
a
{1, 2, 3, 4, 5}
b
{3, 4, 5, 6}
a.add(7)
a
{1, 2, 3, 4, 5, 7}
c=a.copy()
c
SyntaxError: multiple statements found while compiling a single statement
c=a.copy()
c
{1, 2, 3, 4, 5, 7}
a.union(b)
{1, 2, 3, 4, 5, 6, 7}
a.discard(5)
a
{1, 2, 3, 4, 7}
a.update([20,30])
a
{1, 2, 3, 4, 20, 7, 30}
a.difference_update(b)
a
{1, 2, 20, 7, 30}
a
{1, 2, 20, 7, 30}
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Traceback (most recent call last):
  File "<pyshell#25>", line 1, in <module>
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AttributeError: 'set' object has no attribute 'iddisjoint'. Did you mean: 'isdisjoint'?
a.isdisjoint(b)
True
a.issubset(b)
False
a={1,2,3}
b={1,2,3,4,5,6}
a.issubset(b)
True
a.issperset(b)
Traceback (most recent call last):
  File "<pyshell#31>", line 1, in <module>
```

```python
def list_operations():
    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: "))
        match choice:
            case 1:
                element = input("Enter element to insert: ")
                my_list.append(element)
                print(f"Element '{element}' inserted.")
            case 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.")
            case 3:
                element = input("Enter element to find: ")
                if element in my_list:
                    print(f"Element '{element}' found.")
                else:
                    print(f"Element '{element}' not found.")
            case 4:
                print(f"Current list: {my_list}")
            case 5:
                break
            case _:
                print("Invalid choice, please try again.")
list_operations()
```

```
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: 2
Element '2' inserted.

List Operations:
1. Insert an element
2. Delete an element
3. Find an element
4. Display list
5. Exit
Enter your choice: 3
Enter element to find: 4
Element '4' not found.

List Operations:
1. Insert an element
2. Delete an element
3. Find an element
4. Display list
5. Exit
Enter your choice: 5
>>>
```

```python
def list_operations():
    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: "))
        match choice:
            case 1:
                element = input("Enter element to insert: ")
                my_list.append(element)
                print(f"Element '{element}' inserted.")
            case 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.")
            case 3:
                element = input("Enter element to find: ")
                if element in my_list:
                    print(f"Element '{element}' found.")
                else:
                    print(f"Element '{element}' not found.")
            case 4:
                print(f"Current list: {my_list}")
            case 5:
                break
            case _:
                print("Invalid choice, please try again.")
list_operations()
```

```
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: 2
Element '2' inserted.

List Operations:
1. Insert an element
2. Delete an element
3. Find an element
4. Display list
5. Exit
Enter your choice: 3
Enter element to find: 4
Element '4' not found.

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