

Python 3.14.2 (tags/v3.14.2:df79316, Dec 5 2025, 17:18:21) [MSC v.1944 64 bit (AMD64)] on win32

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Python 3.14.2 (tags/v3.14.2:df79316, Dec 5 2025, 17:18:21) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.

```
>>> a={1,2,3,4}
>>> b={3,4,5,6}
>>> a.add(7)
>>> a
{1, 2, 3, 4, 7}
>>> a.copy()
{1, 2, 3, 4, 7}
>>> a.union(b)
{1, 2, 3, 4, 5, 6, 7}
>>> a.difference(b)
{1, 2, 7}
>>> b.difference(a)
{5, 6}
>>> a.symmetric_difference(b)
{1, 2, 5, 6, 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
<built-in method difference_update of set object at 0x0000028A29132180>
>>> a.difference_update()
>>> a
{1, 2, 3, 4, 7, 20, 30}
>>> a.isdisjoint(b)
False
>>> a.issubset(b)
False
>>> a.issuperset(b)
False
```

IDLE Shell - C:/Users/Vaishnavi PM/OneDrive/Lab3 (3.1).py (3.14.2)

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Python 3.14.2 (tags/v3.14.2:df79316, Dec 5 2025, 17:18:21) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.

```
>>> a={1,2,3,4}
>>> b={3,4,5,6}
>>> a.intersection()
{1, 2, 3, 4}
>>> a.intersection_update()
>>> a
{1, 2, 3, 4}
>>> a.pop()
1
>>> |
```

Lab3 (3.2).py - C:\Users\Vaishnavi PM\AppData\Local\Programs\Python\Python314\Lab3 (3.2).py (3.14.2)

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```
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: "))  
  
        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("Current list:", my_list)  
  
        elif choice == 5:  
            print("Exiting program...")  
            break  
  
        else:  
            print("Invalid choice! Please try again.")  
  
# Calling the function  
list_operations()
```

```
List Operations:
1. Insert an element
2. Delete an element
3. Find an element
4. Display list
5. Exit
Enter your choice: 4
Current list: [10, 20, 30]
```

```
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: 40,50
Element '40,50' inserted.
```

```
List Operations:
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: 40,50
Element '40,50' deleted.
```

```
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: 60
Element '60' inserted.
```

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

```
def list_operations():  
    my_list = [10,20,30]  
  
    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("Current list:", my_list)  
  
            case 5:  
                print("Exiting program...")  
                break  
  
            case _:  
                print("Invalid choice! Please try again.")  
  
# Call the function  
list_operations()
```

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

Enter your choice: 4

Current list: [10, 20, 30]

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: 40,50

Element '40,50' inserted.

List Operations:

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

Enter your choice: 4

Current list: [10, 20, 30, '40,50']

List Operations:

```
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: 40,50

Element '40,50' deleted.

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: 60

Element '60' inserted.