```
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:  20
Element '20 ' not found.

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:  30
Element '30' not found.

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 ']

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

[31]:
```
a={1,2,3,4}
b={3,4,5,6}
a
```

[31]:
```
{1, 2, 3, 4}
```

[32]:
```
b
```

[32]:
```
{3, 4, 5, 6}
```

[34]:
```
a.add(7)
print(a)
```

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

[35]:
```
c=a.copy
print(a)
```

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

[36]:
```
a.union(b)
```

[36]:
```
{1, 2, 3, 4, 5, 6, 7}
```

[37]:
```
a.intersection(b)
```

[37]:
```
{3, 4}
```

[38]:
```
a.difference(b)
```

[38]:
```
{1, 2, 7}
```

[39]:
```
a.symmetric_difference(b)
```

[39]:
```
{1, 2, 5, 6, 7}
```

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Code JupyterLab Python 3 (ipykernel)

[38]:
```
{1, 2, 7}
```

[39]:
```
a.symmetric_difference(b)
```

[39]:
```
{1, 2, 5, 6, 7}
```

[41]:
```
a.discard(5)
print(a)
```

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

[43]:
```
a.update([20,30])
print(a)
```

```
{1, 2, 3, 4, 7, 20, 30}
```

[44]:
```
a.difference(b)
```

[44]:
```
{1, 2, 7, 20, 30}
```

[45]:
```
a
```

[45]:
```
{1, 2, 3, 4, 7, 20, 30}
```

[46]:
```
b
```

[46]:
```
{3, 4, 5, 6}
```

[ ]:

[1]:
```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.")
```

```
            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.")

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:  10
Element '10 ' inserted.

List Operations:
1. Insert an element
2. Delete an element
3. Find an element
4. Display list
```

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Code JupyterLab Python 3 (ipykernel)

[*]:
```
def list_operations():
 my_list=[]
 while True:
    print("\nlist operation:")
    print("1.insert an element")
    print("2.deletion an element")
    print("3.find an element")
    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.")
    else:
        print("invalid choice! please try again.")
        break
list_operations()
```

```
    else:
        print("invalid choice! please try again.")
        break
list_operations()
```

```
list operation:
1.insert an element
2.deletion an element
3.find an element
enter your choice: 1
enter element to insert: 10
element'10'inserted.

list operation:
1.insert an element
2.deletion an element
3.find an element
enter your choice: 2
enter element to delete: 20
element'20'not found.

list operation:
1.insert an element
2.deletion an element
3.find an element
enter your choice: 3
enter element to find: 30
element'30'not found.
```