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

[4]: a.add(7)

[5]: a

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

[7]: c=a.copy()

[8]: c

[8]: {1, 2, 3, 4, 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}

[23]: a.discard(5)
```

```
[23]: a.discard(5)
```

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

```
[17]: a
```

```
[17]: {1, 2, 3, 4, 7, 20, 30}
```

```
[18]: a.difference_update
```

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

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

```
[19]: False
```

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

```
[21]: False
```

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

```
[22]: False
```

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

```
[25]: {1, 2, 3, 4, 5, 6, 7, 20, 30}
```

[ ]:
```
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.")
list_operations()
```

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

list operation:
1.insert an element
2.deletion an element
3.find an element
enter your choice: 5
invalid choice! please try again.

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