

```
[2]: a={1, 2, 3, 4, 5}  
print(a)
```

```
{1, 2, 3, 4, 5}
```

```
[3]: a={1, 2, 3, 4, 5, 6}  
b={0, 2, 8, 9, 7, 5}
```

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

```
[4]: {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}
```

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

```
[5]: {2, 5}
```

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

```
[7]: print(a)
```

```
{1, 2, 3, 4, 5, 6, 7}
```

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

```
[8]: {1, 3, 4, 6}
```

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

```
[9]: {0, 8, 9}
```

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

```
[10]: {0, 1, 3, 4, 6, 8, 9}
```

```
[12]: print(a, b)  
[12]: {1, 2, 3, 4, 5, 6, 7} {0, 2, 5, 7, 8, 9}
```

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

```
[14]: print(a, b, c)  
[14]: {1, 2, 3, 4, 5, 6, 7} {0, 2, 5, 7, 8, 9} {1, 2, 3, 4, 5, 6, 7}
```

```
[24]: a=[1, 2, 3, 4, 5, 6, 7, 8]  
[24]: a.pop()
```

```
[24]: 8
```

```
[25]: print(a)  
[25]: [1, 2, 3, 4, 5, 6, 7]
```

```
[28]: a.append(8)
```

```
[29]: print(a)  
[29]: [1, 2, 3, 4, 5, 6, 7, 8]
```

```
[30]: a[0]=0
```

```
[33]: print(a)  
[33]: [0, 2, 3, 4, 5, 6, 7, 8]
```

```
[34]: a.insert(0, 1)
```

```
[35]: print(a)  
[35]: [1, 0, 2, 3, 4, 5, 6, 7, 8]
```

```
[35]: print(a)  
[1, 0, 2, 3, 4, 5, 6, 7, 8]
```

```
[36]: a.pop(1)  
[36]: 0
```

```
[37]: print(a)  
[1, 2, 3, 4, 5, 6, 7, 8]
```

```
[38]: a.insert(8, 9)
```

```
[39]: print(a)  
[1, 2, 3, 4, 5, 6, 7, 8, 9]
```

```
[41]: print(a[1:9:2])  
[2, 4, 6, 8]
```

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

```
[43]: print(c)  
[1, 2, 3, 4, 5, 6, 7, 8, 9]
```

```
[58]: def list_operations():  
    my_list=[Sun, Mon, Tue, Wed, Thu, Fri, Sat]  
    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:
```



```
[60]: a=[1, 2, 3, 4, 5, 6, 7]
      a[:]
```

```
[60]: [1, 2, 3, 4, 5, 6, 7]
```

```
[61]: a[1:5]
```

```
[61]: [2, 3, 4, 5]
```

```
[62]: a[1:-5]
```

```
[62]: [2]
```

```
[63]: a[-5:1]
```

```
[63]: []
```

```
[64]: a[-1:5:-1]
```

```
[64]: [7]
```

```
[65]: a[-1:-5]
```

```
[65]: []
```

```
[*]: 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 == 4:  
        print("Current List:", my_list)  
  
    elif choice == 5:  
        print("Exiting program...")  
        break  
  
    else:  
        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: 200  
Element '200' 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: 200  
Element '200' deleted.
```

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

```
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: 20  
Element '20' inserted.
```

```
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: 30  
Element '30' 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', '20', '30']
```

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

```
Enter your choice: ↑↓ for history. Search history with c-↑/c-↓
```

Show hidden icon

```
[60]: a=[1, 2, 3, 4, 5, 6, 7]
      a[:]
```

```
[60]: [1, 2, 3, 4, 5, 6, 7]
```

```
[61]: a[1:5]
```

```
[61]: [2, 3, 4, 5]
```

```
[62]: a[1:-5]
```

```
[62]: [2]
```

```
[63]: a[-5:1]
```

```
[63]: []
```

```
[64]: a[-1:5:-1]
```

```
[64]: [7]
```

```
[65]: a[-1:-5]
```

```
[65]: []
```

```
[ ]:
```

