**List Methods**

1. **Index**
   * list.index(value) returns the index of the first occurrence of value in the list.
   * Alters the list? No
   * Returns anything? Yes (index of the element)
2. **Count**
   * list.count(value) returns the number of times value appears in the list.
   * Alters the list? No
   * Returns anything? Yes (count of occurrences)
3. **Copy**
   * list.copy() creates a shallow copy of the list.
   * Alters the list? No
   * Returns anything? Yes (new list)
4. **Clear**
   * list.clear() removes all elements from the list.
   * Alters the list? Yes (empties it)
   * Returns anything? No
5. **Pop**
   * list.pop(index) removes and returns the element at the specified index. If no index is given, it removes the last item.
   * Alters the list? Yes
   * Returns anything? Yes (removed element)
6. **Remove**
   * list.remove(value) removes the first occurrence of value from the list.
   * Alters the list? Yes
   * Returns anything? No
7. **Append**
   * list.append(value) adds value to the end of the list.
   * Alters the list? Yes
   * Returns anything? No
8. **Extend**
   * list.extend(iterable) adds all elements from iterable to the end of the list.
   * Alters the list? Yes
   * Returns anything? No
9. **Insert**
   * list.insert(index, value) inserts value at the specified index.
   * Alters the list? Yes
   * Returns anything? No
10. **Reverse**

* list.reverse() reverses the order of elements in place.
* Alters the list? Yes
* Returns anything? No

1. **Sort**

* list.sort() sorts the list in ascending order.
* Alters the list? Yes
* Returns anything? No

**Set Methods**

1. **Add**
   * set.add(value) adds value to the set.
   * Alters the set? Yes
   * Returns anything? No
2. **Clear**
   * set.clear() removes all elements from the set.
   * Alters the set? Yes (empties it)
   * Returns anything? No
3. **Remove**
   * set.remove(value) removes value from the set. Raises an error if value is not found.
   * Alters the set? Yes
   * Returns anything? No
4. **Discard**
   * set.discard(value) removes value from the set without raising an error if it’s missing.
   * Alters the set? Yes
   * Returns anything? No
5. **Pop**
   * set.pop() removes and returns an arbitrary element from the set.
   * Alters the set? Yes
   * Returns anything? Yes (removed element)
6. **Issubset**
   * set.issubset(other\_set) checks if the set is a subset of other\_set.
   * Alters the set? No
   * Returns anything? Yes (True/False)
7. **Difference**
   * set.difference(other\_set) returns elements in the set that are not in other\_set.
   * Alters the set? No
   * Returns anything? Yes (new set)
8. **Copy**
   * set.copy() creates a shallow copy of the set.
   * Alters the set? No
   * Returns anything? Yes (new set)

**Dictionary Methods**

1. **Get**
   * dict.get(key, default) returns the value for key if found, otherwise returns default.
   * Alters the dictionary? No
   * Returns anything? Yes (value or default)
2. **Pop**
   * dict.pop(key, default) removes and returns the value for key. If key is missing, it returns default.
   * Alters the dictionary? Yes
   * Returns anything? Yes (removed value)
3. **Update**
   * dict.update(other\_dict) updates the dictionary with key-value pairs from other\_dict.
   * Alters the dictionary? Yes
   * Returns anything? No
4. **Clear**
   * dict.clear() removes all key-value pairs from the dictionary.
   * Alters the dictionary? Yes (empties it)
   * Returns anything? No
5. **Copy**
   * dict.copy() creates a shallow copy of the dictionary.
   * Alters the dictionary? No
   * Returns anything? Yes (new dictionary)