Map Interface

1.Characteristic

Is a couple key-value. Value can be same but key is not same

Used when we want access to value via key

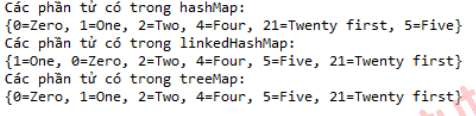
2. Most popular method

\* create a map interface: use 3 class following to declare map interface: HashMap, LinkedHashMap, TreeMap

Map interface have Class implement HashMap, element ignore order it is added

Map interface have class implement is LinkedhashMap, element depend on order element is added

Map interface have class implement Is TreeMap, element arrange in increase of key



3. Take value of map

\* take entry of map (key and value): Set<Map.Entry<String, String>> setLanguages = mapLanguages.entrySet();

\* take by for each: mapChar.forEach((keyChar, valueInt) -> System.out.println(

        "Key = " + keyChar + ", value = " + valueInt));

}

\*Take all key of map: for (String key : mapLanguages.keySet()) {

        System.out.println("Key = " + key);

    }

\*Take all value of map: for (String value: mapLanguages.values()) {

        System.out.println("Value = " + value);

    }

\*Use iterator

Take entry

Iterator<Map.Entry<String, String>> iterator = mapLanguages.entrySet().iterator();

Take key of map:  Iterator<String> iterator = mapLanguages.keySet().iterator();

Take value of map: Iterator<String> iterator = mapLanguages.values().iterator();

4. Add data in map: (put method)

5. Take data of app when know key: (get method) if don’t have value → return null

6. Delete an entry in map: (remove method)

7. Replace value of an entry in map

replace(K key, V value);

replace(K key, V oldValue, V newValue);

8. Copy map: (putAll method)

Map<String, String> mapCityCopy = new TreeMap<>();

    // phương thức size() sẽ trả về số lượng entry có trong Map

    System.out.println("Số lượng các entry có trong mapCityCopy "

        + "trước khi sao chép = " + (mapCityCopy.size()));

    // sao chép các entry của mapCity

    // vào trong mapCityCopy

    mapCityCopy.putAll(mapCity);

    System.out.println("Số lượng các entry có trong mapCityCopy "

        + "sau khi sao chép = " + (mapCityCopy.size()));

    System.out.println("Danh sách các thành phố trong mapCityCopy: ");

    Set<Map.Entry<String, String>> setCityCopy = mapCityCopy.entrySet();

    System.out.println(setCityCopy);