Java.util.Dictionary Class in Java

**util.Dictionary** is an abstract class, representing a **key-value** relation and works similiar to a map. Given a key you can store values and when needed can retrieve the value back using its key. Thus, it is a list of key-value pair.  
**Declaration**

public abstract class Dictionary extends Object

**Constructors:**  
**Dictionary()** Sole constructor.  
**Methods of util.Dictionary Class :**

1. **put(K key, V value) : java.util.Dictionary.put(K key, V value)** adds key-value pair to the dictionary  
   **Syntax :**
2. public abstract V put(K key, V value)
3. **Parameters :**
4. -> key
5. -> value
6. **Return :**
7. key-value pair mapped in the dictionary
8. **elements() : java.util.Dictionary.elements()** returns value representation in dictionary  
   **Syntax :**
9. public abstract Enumeration elements()
10. **Parameters :**
11. --------
12. **Return :**
13. value enumeration in dictionary
14. **get(Object key) : java.util.Dictionary.get(Object key)**returns the value that is mapped with the argumented key in the dictionary  
    **Syntax :**

public abstract V get(Object key)

**Parameters :**

key - key whose mapped value we want

**Return :**

value mapped with the argumented key

1. **isEmpty() : java.util.Dictionary.isEmpty()**checks whether the dictionary is empty or not.  
   **Syntax :**
2. public abstract boolean isEmpty()
3. **Parameters :**
4. ------
5. **Return :**
6. true, if there is no key-value relation in the dictionary; else false
7. **keys() : java.util.Dictionary.keys()** returns key representation in dictionary  
   **Syntax :**
8. public abstract Enumeration keys()
9. **Parameters :**
10. --------
11. **Return :**
12. key enumeration in dictionary
13. **remove(Object key) : java.util.Dictionary.remove(Object key)**removes the key-value pair mapped with the argumented key.  
    **Syntax :**
14. public abstract V remove(Object key)
15. **Parameters :**
16. key : key to be removed
17. **Return :**
18. value mapped with the key
19. **size() : java.util.Dictionary.size()**returns the no. of key-value pairs in the Dictionary  
    **Syntax :**
20. public abstract int size()
21. **Parameters :**
22. -------
23. **Return :**
24. returns the no. of key-value pairs in the Dictionary

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| --- |
| // Java Program explaining util.Dictionary class Methods  // put(), elements(), get(), isEmpty(), keys()  // remove(), size()    import java.util.\*;  public class New\_Class  {      public static void main(String[] args)      {            // Initializing a Dictionary          Dictionary geek = new Hashtable();            // put() method          geek.put("123", "Code");          geek.put("456", "Program");            // elements() method :          for (Enumeration i = geek.elements(); i.hasMoreElements();)          {              System.out.println("Value in Dictionary : " + i.nextElement());          }            // get() method :          System.out.println("\nValue at key = 6 : " + geek.get("6"));          System.out.println("Value at key = 456 : " + geek.get("123"));            // isEmpty() method :          System.out.println("\nThere is no key-value pair : " + geek.isEmpty() + "\n");            // keys() method :          for (Enumeration k = geek.keys(); k.hasMoreElements();)          {              System.out.println("Keys in Dictionary : " + k.nextElement());          }            // remove() method :          System.out.println("\nRemove : " + geek.remove("123"));          System.out.println("Check the value of removed key : " + geek.get("123"));            System.out.println("\nSize of Dictionary : " + geek.size());        }  } |

Run on IDE

**Output:**

Value in Dictionary : Code

Value in Dictionary : Program

Value at key = 6 : null

Value at key = 456 : Code

There is no key-value pair : false

Keys in Dictionary : 123

Keys in Dictionary : 456

Remove : Code

Check the value of removed key : null

Size of Dictionary : 1