

Java.util.Dictionary Class in Java

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util.Dictionary is an abstract class, representing a **key-value** relation and works similar 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 :

```
public abstract V put(K key, V value)
```

Parameters :

-> key

-> value

Return :

key-value pair mapped in the dictionary

2. elements() : java.util.Dictionary.elements() returns value representation in dictionary.

Syntax :

```
public abstract Enumeration elements()
```

Parameters :

Return :

value enumeration in dictionary

3. 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

4. isEmpty() : java.util.Dictionary.isEmpty() checks whether the dictionary is empty or not.

Syntax :

```
public abstract boolean isEmpty()
```

Parameters :

Return :

true, if there is no key-value relation in the dictionary; else false

5. keys() : java.util.Dictionary.keys() returns key representation in dictionary.

Syntax :

```
public abstract Enumeration keys()
```

Parameters :

Return :

key enumeration in dictionary

6. remove(Object key) : java.util.Dictionary.remove(Object key) removes the key-value pair mapped with the argumented key.

Syntax :

```
public abstract V remove(Object key)
```

Parameters :

key : key to be removed

Return :

value mapped with the key

7. size() : java.util.Dictionary.size() returns the no. of key-value pairs in the Dictionary.

Syntax :

```
public abstract int size()
```

Parameters :

Return :

returns the no. of key-value pairs in the Dictionary

```
// 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() + );

        // 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());  
    }  
}
```

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



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