Java - The Map.Entry Interface

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The Map.Entry interface enables you to work with a map entry.

The **entrySet( )** method declared by the Map interface returns a Set containing the map entries. Each of these set elements is a Map.Entry object.

Following table summarizes the methods declared by this interface −

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| --- | --- |
| **Sr.No.** | **Method & Description** |
| 1 | **boolean equals(Object obj)**  Returns true if obj is a Map.Entry whose key and value are equal to that of the invoking object. |
| 2 | **Object getKey( )**  Returns the key for this map entry. |
| 3 | **Object getValue( )**  Returns the value for this map entry. |
| 4 | **int hashCode( )**  Returns the hash code for this map entry. |
| 5 | **Object setValue(Object v)**  Sets the value for this map entry to **v**. A ClassCastException is thrown if **v** is not the correct type for the map. A NullPointerException is thrown if **v** is null and the map does not permit null keys. An UnsupportedOperationException is thrown if the map cannot be changed. |

**Object getValue( ) & Object getKey( )**

|  |  |
| --- | --- |
| **package** com.company; *//import javax.xml.bind.SchemaOutputResolver;* **import** java.util.\*;  **public class** Main {   **public static void** main(String[] args) {  *// Create a hash map* HashMap hm = **new** HashMap();   *// Put elements to the map* hm.put(**"Zara"**, **new** Double(3434.34));  hm.put(**"Mahnaz"**, **new** Double(123.22));  hm.put(**"Ayan"**, **new** Double(1378.00));  hm.put(**"Daisy"**, **new** Double(99.22));  hm.put(**"Qadir"**, **new** Double(-19.08));   *// Get a set of the entries* Set set = hm.entrySet();   *// Get an iterator* Iterator i = set.iterator();   *// Display elements* **while**(i.hasNext()) {  Map.Entry me = (Map.Entry)i.next();  System.***out***.print(me.getKey() + **": "**);  System.***out***.println(me.getValue());  }  System.***out***.println();   *// Deposit 1000 into Zara's account* **double** balance = ((Double)hm.get(**"Zara"**)).doubleValue();  hm.put(**"Zara"**, **new** Double(balance + 1000));  System.***out***.println(**"Zara's new balance: "** + hm.get(**"Zara"**));  } } | Daisy: 99.22  Ayan: 1378.0  Zara: 3434.34  Qadir: -19.08  Mahnaz: 123.22  Zara's new balance: 4434.34 |

**Equals()**

|  |  |
| --- | --- |
| **package** com.company; *//import javax.xml.bind.SchemaOutputResolver;* **import** java.util.\*;  **public class** Main {   **public static void** main(String[] args) {  *// Create a hash map* HashMap hm = **new** HashMap();   *// Put elements to the map* hm.put(**"Zara"**, **new** Double(3434.34));  hm.put(**"Mahnaz"**, **new** Double(123.22));  hm.put(**"Ayan"**, **new** Double(1378.00));  hm.put(**"Daisy"**, **new** Double(99.22));  hm.put(**"Qadir"**, **new** Double(-19.08));   *// Get a set of the entries* Set set = hm.entrySet();   *// Get an iterator* Iterator i = set.iterator();   *// Display elements* **while**(i.hasNext()) {  Map.Entry me = (Map.Entry)i.next();  System.***out***.print(me.getKey() + **": "**);  System.***out***.println(me.getValue());  }  System.***out***.println();   *//equals   // Create a hash map - 2* HashMap hm1 = **new** HashMap();   *// Put elements to the map* hm1.put(**"Zara"**, **new** Double(3434.34));  hm1.put(**"Mahnaz"**, **new** Double(123.22));  hm1.put(**"Ayan"**, **new** Double(1378.00));  hm1.put(**"Daisy"**, **new** Double(99.22));  hm1.put(**"Qadir"**, **new** Double(-19.08));   *// Get a set of the entries* Set set1 = hm.entrySet();   *// Get an iterator* Iterator i1 = set.iterator();   *// Display elements* **while**(i1.hasNext()) {  Map.Entry me = (Map.Entry)i1.next();  System.***out***.print(me.getKey() + **": "**);  System.***out***.println(me.getValue());  }   **if** (hm.equals(hm1))  System.***out***.println(**"matched"**);  **else** System.***out***.println(**"doesn't match"**);  } } | **Daisy: 99.22**  **Ayan: 1378.0**  **Zara: 3434.34**  **Qadir: -19.08**  **Mahnaz: 123.22**  **Daisy: 99.22**  **Ayan: 1378.0**  **Zara: 3434.34**  **Qadir: -19.08**  **Mahnaz: 123.22**  **matched** |