2.9 Maps

Program:

package map\_implementations;

import java.util.HashMap;

import java.util.Map;

import java.util.TreeMap;

public class MapClass {

public static void main(String[] args) {

//HashMap

//HashMap supports one null key and many null values

//It is not synchronized or thread-safe

HashMap<Integer, String> hm = new HashMap<Integer, String>();

hm.put(1, "One");

hm.put(2, "Two");

hm.put(3, "Three");

hm.put(4, "Four");

for(Map.Entry m : hm.entrySet()) {

System.out.println(m.getKey()+": "+m.getValue());

}

System.out.println("\n");

//HashMap

//HashMap supports one null key and many null values

//It is not synchronized or thread-safe

HashMap<Integer, String> ht = new HashMap<Integer, String>();

ht.put(1, "OneHT");

ht.put(2, "TwoHT");

ht.put(3, "ThreeHT");

ht.put(4, "FourHT");

for(Map.Entry m : ht.entrySet()) {

System.out.println(m.getKey()+": "+m.getValue());

}

//TreeMap

TreeMap<Integer,String> tm=new TreeMap<Integer,String>();

tm.put(8,"Eight");

tm.put(9,"Nine");

tm.put(10,"Ten");

System.out.println("\nThe elements of TreeMap are ");

for(Map.Entry l:tm.entrySet()){

System.out.println(l.getKey()+" "+l.getValue());

}

}

}