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//Program to demonstrate HashMap class
package com.tnsif.collection.map;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;
import java.util.Set;
class HashMapDemo
{
 public static void main(String args[])
 {

  //Hashmap with String key and Integer Value - Sorted on
Keys order
  HashMap<String,Integer> bookMap = new
HashMap<String,Integer>();
  bookMap.put("Let Us C", 320);
  bookMap.put("The Complete Referece C++ ",450);
  bookMap.put("The Complete Referece Java 2",465);
  bookMap.put("Python Programming",599);
  bookMap.put("Application Development using Spring
Boot",600);
  System.out.println("Book Details are ");
  System.out.println(bookMap);

  System.out.println("Traversing a HashMap");
  Set set = bookMap.entrySet(); // Get a set of the entries
  Iterator i = set.iterator(); // Get an iterator
  while(i.hasNext()) { // Display elements
   Map.Entry me = (Map.Entry)i.next();
   System.out.println(me.getKey() + ": "+ me.getValue());
  }

  //Hash map with null keys and null values
  HashMap<String, String> hm1=new
HashMap<String,String>();
```

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  hm1.put("Nitin","nitin123@gmail.com");
  hm1.put("Deepak",null);
  hm1.put(null,"abc");
  hm1.put("Harish",null);
  hm1.put(null,null);
  hm1.put("Ravi","ravi123@gmail.com");
  System.out.println("Person Hashmap with name and
emailId");
  System.out.println(hm1);

  //Hashmap with Integer key and User defined Object as a
Value
  HashMap<Integer,Student> studentMap=new
HashMap<Integer,Student>();
  studentMap.put(10001,new Student(1,"Aniket",78));
  studentMap.put(10005,new Student(2,"Sumit",84));
  studentMap.put(10006,new Student(3,"Amit",81));
  studentMap.put(10003,new Student(5,"Ankit",72));
  studentMap.put(10004,new Student(4,"Anil",78));
  System.out.println("Student Details are "+studentMap);
 }
}
```