**Ví dụ 2**: HashMap với key có kiểu String, value có kiểu Student.

Lớp Student.java

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| --- |
| /\*\* |

|  |
| --- |
| \* Student class |

|  |
| --- |
| \* |

|  |
| --- |
| \* @author viettuts.vn |

|  |
| --- |
| \*/ |

|  |
| --- |
| public class Student{ |

|  |
| --- |
| private String name; |

|  |
| --- |
| private int age; |

|  |
| --- |
| private String address; |

|  |
| --- |
|  |

|  |
| --- |
| public Student() { |

|  |
| --- |
| } |

|  |
| --- |
|  |

|  |
| --- |
| public Student(String name, int age, String address) { |

|  |
| --- |
| super(); |

|  |
| --- |
| this.name = name; |

|  |
| --- |
| this.age = age; |

|  |
| --- |
| this.address = address; |

|  |
| --- |
| } |

|  |
| --- |
|  |

|  |
| --- |
| public String getName() { |

|  |
| --- |
| return name; |

|  |
| --- |
| } |

|  |
| --- |
|  |

|  |
| --- |
| public void setName(String name) { |

|  |
| --- |
| this.name = name; |

|  |
| --- |
| } |

|  |
| --- |
|  |

|  |
| --- |
| public int getAge() { |

|  |
| --- |
| return age; |

|  |
| --- |
| } |

|  |
| --- |
|  |

|  |
| --- |
| public void setAge(int age) { |

|  |
| --- |
| this.age = age; |

|  |
| --- |
| } |

|  |
| --- |
|  |

|  |
| --- |
| public String getAddress() { |

|  |
| --- |
| return address; |

|  |
| --- |
| } |

|  |
| --- |
|  |

|  |
| --- |
| public void setAddress(String address) { |

|  |
| --- |
| this.address = address; |

|  |
| --- |
| } |

|  |
| --- |
|  |

|  |
| --- |
| @Override |

|  |
| --- |
| public String toString() { |

|  |
| --- |
| return "Student@name=" + name + ",age=" + age + ",address=" + address; |

|  |
| --- |
| } |

|  |
| --- |
| } |

Lớp HashMapExample2.java

|  |
| --- |
| package vn.viettuts.collection; |

|  |
| --- |
|  |

|  |
| --- |
| import java.util.HashMap; |

|  |
| --- |
| import java.util.Set; |

|  |
| --- |
|  |

|  |
| --- |
| public class HashMapExample2 { |

|  |
| --- |
| /\*\* |

|  |
| --- |
| \* main |

|  |
| --- |
| \* |

|  |
| --- |
| \* @author viettuts.vn |

|  |
| --- |
| \* @param args |

|  |
| --- |
| \*/ |

|  |
| --- |
| public static void main(String args[]) { |

|  |
| --- |
| // init hashMap |

|  |
| --- |
| HashMap<String, Student> hashMap = new HashMap<String, Student>(); |

|  |
| --- |
| // add elements to hashMap |

|  |
| --- |
| hashMap.put("1", new Student("A", 12, "Hanoi")); |

|  |
| --- |
| hashMap.put(null, new Student("C", 13, "Hanoi")); |

|  |
| --- |
| hashMap.put("2", null); |

|  |
| --- |
| hashMap.put("4", new Student("D", 14, "Hanoi")); |

|  |
| --- |
| // show hashMap |

|  |
| --- |
| show(hashMap); |

|  |
| --- |
| } |

|  |
| --- |
|  |

|  |
| --- |
| /\*\* |

|  |
| --- |
| \* show HashMap |

|  |
| --- |
| \* |

|  |
| --- |
| \* @param viettuts.vn |

|  |
| --- |
| \*/ |

|  |
| --- |
| public static void show(HashMap<String, Student> hashMap) { |

|  |
| --- |
| Set<String> keySet = hashMap.keySet(); |

|  |
| --- |
| for (String key : keySet) { |

|  |
| --- |
| System.out.println(key + " " + hashMap.get(key)); |

|  |
| --- |
| } |

|  |
| --- |
| } |

|  |
| --- |
| } |

Kết quả:

null Student@name=C,age=13,address=Hanoi

1 Student@name=A,age=12,address=Hanoi

2 null

4 Student@name=D,age=14,address=Hanoi