

Aim:

Write a java program(s) that use collection framework classes.(HashTable class)

Source Code:**HashTableclass.java**

```

import java.util.*;
public class HashTableclass{
    public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
        System.out.print("No.Of Mapping Elements in HashTable:");
        int cap = sc.nextInt();
        Hashtable<Integer,String> ht = new Hashtable<Integer,String>();
        for(int i=0;i<cap;i++){
            Scanner s = new Scanner(System.in);
            System.out.print("Rank:");
            int i1 = s.nextInt();
            Scanner s1 = new Scanner(System.in);
            System.out.print("Name:");
            String st = s1.nextLine();
            ht.put(i1,st);
        }
        for(Map.Entry m : ht.entrySet()){
            System.out.println("Rank : "+m.getKey()+"\t\t Name : "+m.getValue());
        }
    }
}

```

Execution Results - All test cases have succeeded!**Test Case - 1****User Output**

No.Of Mapping Elements in HashTable: 3

Rank: 4

Name: Robert

Rank: 5

Name: John

Rank: 6

Name: Jennifer

Rank : 6 Name : Jennifer

Rank : 5 Name : John

Rank : 4 Name : Robert

Test Case - 2**User Output**

No.Of Mapping Elements in HashTable: 3

Rank: 1

Name: Jon

Rank: 2	
Name: Robert	
Rank: 3	
Name: Jennifer	
Rank : 3	Name : Jennifer
Rank : 2	Name : Robert
Rank : 1	Name : Jon