S.No: 36	Exp. Name: *Write java program(s) that use collection framework classes. (HashTable class)*	Date:2023-12-03

Aim:

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

Source Code:

HashTableclass.java

```java
import java.util.*;
public class HashTableclass {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        Hashtable<Integer,String> hashTable = new Hashtable<Integer,String>();
        System.out.print("No.Of Mapping Elements in HashTable:");
        int num = sc.nextInt();
        for(int i=0;i<num;i++) {
            System.out.print("Rank:");
            int key = sc.nextInt();
            sc.nextLine();
            System.out.print("Name:");
            String value=sc.nextLine();
            hashTable.put(key,value);
        }
        for(Map.Entry<Integer,String> m:hashTable.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