S.No: 36	Exp. Name: *Write java program(s) that use collection framework classes. (HashTable class)*	Date:2023-11-30

Aim:

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

Source Code:

HashTableclass.java

```java
import java.util.*;
import java.io.BufferedReader;
import java.io.InputStreamReader;
public class HashTableclass{
    public static void main(String [] args) throws Exception {
        BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
        System.out.print("No.Of Mapping Elements in HashTable:");
        int hashTableSize = Integer.parseInt(br.readLine());
        Hashtable<Integer, String> hashTable = new Hashtable<>();
        for(int i=0;i<hashTableSize;++i){
            System.out.print("Rank:");
            int rankVal = Integer.parseInt(br.readLine());
            System.out.print("Name:");
            String nameVal = br.readLine();
            hashTable.put(rankVal, nameVal);
        }
        Enumeration keys = hashTable.keys();
        while(keys.hasMoreElements()) {
            int nextKey = (int)keys.nextElement();
            System.out.println("Rank : " + nextKey + "\t\t" + " Name : " +
                        hashTable.get(nextKey));
        }
    }
}
```

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