

Aim:

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

Source Code:**HashTableclass.java**

```

import java.util.*;
import java.util.Enumeration;
class HashTableclass {
    public static void main(String[] args)
    {
        Hashtable<Integer, String> ht = new Hashtable<>();
        System.out.print("No.Of Mapping Elements in HashTable:");
        Scanner sc= new Scanner(System.in);
        int n = sc.nextInt();
        for (int i=0; i<n; i++){
            System.out.print("Rank:");
            Scanner b = new Scanner(System.in);
            int num= b.nextInt();
            System.out.print("Name:");
            Scanner a = new Scanner(System.in);
            String str= a.nextLine();
            ht.put(num,str);
        }
        Enumeration<Integer> e = ht.keys();
        while (e.hasMoreElements()) {
            int key = e.nextElement();
            System.out.println("Rank : " + key+ "\t\t Name : "+ ht.get(key));
        }
    }
}

```

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