

S.No: 36	Exp. Name: <b>Write java program(s) that use collection framework classes. (HashTable class)</b>	Date:2023-12-04
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### 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