

S.No: 36	Exp. Name: Write java program(s) that use collection framework classes. (HashTable class)	Date:2023-12-07
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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 inp = new Scanner(System.in);
        Hashtable<Integer,String> hashTable = new Hashtable<Integer,String>();
        System.out.print("No.Of Mapping Elements in HashTable:");
        int num = inp.nextInt();
        for(int i=0;i<num;++i) {
            System.out.print("Rank:");
            int key = inp.nextInt();
            inp.nextLine();
            System.out.print("Name:");
            String value = inp.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