S.No: 33	Exp. Name: *Write java program(s) that use collection framework classes.* *(HashMap class)*	Date:2023-11-30

Aim:

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

Source Code:

HashMapclass.java

```java
import java.util.*;
public class HashMapclass{
    public static void main(String[] args){
        Scanner inp = new Scanner(System.in);
        HashMap<String,Integer> hashMap = new HashMap<String,Integer>();
        System.out.print("No.Of Mapping Elements in HashMap:");
        int num = inp.nextInt();
        for(int i=0;i<num;i++){
            inp.nextLine();
            System.out.print("String:");
            String key = inp.nextLine();
            System.out.print("Integer:");
            int value = inp.nextInt();
            hashMap.put(key,value);
        }
        for(Map.Entry m : hashMap.entrySet()){
            System.out.println("Key = "+m.getKey()+", Value = "+m.getValue());
        }
        System.out.println(hashMap);
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output
No.Of Mapping Elements in HashMap: 3
String: hi
Integer: 1
String: hello
Integer: 2
String: world
Integer: 3
Key = hi, Value = 1
Key = world, Value = 3
Key = hello, Value = 2
{hi=1, world=3, hello=2}

Test Case - 2

User Output
No.Of Mapping Elements in HashMap: 3

String: Students
Integer: 200
String: Teachers
Integer: 5
String: Principal
Integer: 1
Key = Teachers, Value = 5
Key = Students, Value = 200
Key = Principal, Value = 1
{Teachers=5, Students=200, Principal=1}