S.No: 33	Exp. Name: *Write java program(s) that use collection framework classes.(HashMap class)*	Date: 2022-02-22

Aim:

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

Source Code:

HashMapclass.java

```java
import java.util.HashMap;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.Set;
public class HashMapclass{
    public static void main(String [] args) throws
    Exception {
        BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
        System.out.print("No.Of Mapping Elements in HashMap:");
        int hashMapSize = Integer.parseInt(br.readLine());
        HashMap<String, Integer> stringAndInts = new HashMap<>();
    for(int i=0;i<hashMapSize;++i)       {
        System.out.print("String:");
        String hashString = br.readLine();
        System.out.print("Integer:");
        int hashInt=Integer.parseInt(br.readLine());
        stringAndInts.put(hashString,hashInt);     }
Set<String> hashMapKeySet = stringAndInts.keySet();
for(String key : hashMapKeySet) {
    System.out.println("Key = "  + key + ", " + "Value = " + stringAndInts.get(key));
    }
System.out.println(stringAndInts);  }

}
```

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}

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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}

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