

S.No: 33	Exp. Name: Write java program(s) that use collection framework classes. (HashMap class)	Date:2023-12-04
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Aim:

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

Source Code:

HashMapclass.java

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

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}