

Aim:

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

Source Code:**HashMapclass.java**

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