Program -1 – How to return map to method

package com.hashmap;

import java.util.HashMap;

import java.util.Map;

public class HashMapDemo5 {

**public** HashMap<Integer,String> addEmployee(){

HashMap<Integer, String> hashMap= **new** HashMap<Integer,String>();

hashMap.put(10, "rohan");

hashMap.put(20, "sohan");

hashMap.put(30, "velocity");

**return** hashMap;

}

**public** **static** **void** main(String[] args) {

HashMapDemo5 hashMapDemo5= **new** HashMapDemo5();

System.***out***.println("first way="+hashMapDemo5.addEmployee()); //1st way

HashMap<Integer, String> hashMap=hashMapDemo5.addEmployee(); //2nd way

System.***out***.println("second way="+hashMap);

Map<Integer, String> map= hashMapDemo5.addEmployee(); //3rd way

System.***out***.println("third way="+map);

}

}}

Program-2 Can we take custom Employee class as key in hashmap

**public** **class** Employee {

**int** id = 10;

String name = "ram";

String salary = "5000";

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getSalary() {

**return** salary;

}

**public** **void** setSalary(String salary) {

**this**.salary = salary;

}

}

**import** java.util.HashMap;

**public** **class** HashMapDemo6 {

**public** **static** **void** main(String[] args) {

HashMap<Employee, String> hashMap= **new** HashMap<Employee,String>();

Employee employee= **new** Employee();

//employee as object in map as key and name as value

hashMap.put(employee, employee.getSalary());

System.***out***.println(hashMap.get(employee));

}

}

Program- 3

//ArrayList with HashMap example

**import** java.util.ArrayList;

**import** java.util.HashMap;

**import** java.util.List;

**import** java.util.Set;

**public** **class** HashMapDemo2 {

**public** **static** **void** main(String[] args) {

List<String> computeraccessories = **new** ArrayList<String>();

computeraccessories.add("watch");

computeraccessories.add("speaker");

computeraccessories.add("laptop");

List<String> electronics = **new** ArrayList<String>();

electronics.add("printer");

electronics.add("keyboard");

electronics.add("mouse");

List<String> furniture = **new** ArrayList<String>();

furniture.add("bed");

furniture.add("chair");

furniture.add("sofa");

/\*

\* HashMap hm=new HashMap();

\* hm.put("ajay",20);

\* hm.put("sachin",50);

\*/

// categories as key and value as ArrayList

HashMap<String, List<String>> categories = **new** HashMap<String, List<String>>();

categories.put("Computer", computeraccessories); //passing arraylist as value

categories.put("Electronics", electronics);

categories.put("Furniture", furniture);

// eshop as key-string, value as HashMap

HashMap<String, HashMap<String, List<String>>> eshop = **new** HashMap<String, HashMap<String, List<String>>>();

eshop.put("E Shop", categories);

// how to iterate

Set<String> s = eshop.keySet(); //only key s contain E shop

**for**(String str : s) {

System.***out***.println(str); //key

//System.out.println(eshop.get(str)); //value-eshop.get(E shop)--print

}

}

}