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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);
     }
```

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Program-2 Can we take custom Employee class as key in hashmap
package com.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;
     }
}
```

}

```
package com.hashmap;
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
package com.test;
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");
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List<String> electronics = new ArrayList<String>();
           electronics.add("printer");
           electronics.add("keyboard");
           electronics.add("mouse");
           ArrayList<String> furniture = new ArrayList<String>();
           furniture.add("bed");
           furniture.add("chair");
           furniture.add("sofa");
           /*
            * HashMap hm=new HashMap();
            * hm.put("<u>ajay</u>",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
           }
     }
}
```