package Collections.Maps;  
  
import java.util.HashMap;  
import java.util.Map;  
  
public class HashMapDemo {  
 public static void main(String[] args) {  
  
  
 HashMap<StudentMap, String> map2 = new HashMap<>();  
 StudentMap studentMap1 = new StudentMap("Anjali", 20001);  
 StudentMap studentMap2 = new StudentMap("Geetanjali", 29001);  
 StudentMap studentMap3 = new StudentMap("Ashwini", 24001);  
 StudentMap studentMap4 = new StudentMap("Anjaliu", 24001);  
 StudentMap studentMap5 = new StudentMap("Anjali", 20501);  
  
 map2.put(studentMap1,"Karnataka");  
 map2.put(studentMap2,"Maharashtra");  
 map2.put(studentMap3,"Bengal");  
 map2.put(studentMap4,"Gujrat");  
 map2.put(studentMap5,"Kerala");  
 System.*out*.println(map2);  
 }  
}  
  
class StudentMap {  
 private String studentName;  
 private int id;  
  
 public StudentMap(String studentName,int id){  
 this.studentName=studentName;  
 this.id=id;  
 }  
  
 public String getStudentName(){  
 return studentName;  
 }  
 public int getId(){  
 return id;  
 }  
 // with id  
 public boolean equals(Object s1){  
 StudentMap k= (StudentMap) s1;  
 return this.id==k.id;  
 }  
  
 public int hashCode(){  
 return id;

// return Object.hash(studentName,id);  
 }  
 // with name  
  
// public boolean equals(Object s1){  
// StudentMap k= (StudentMap) s1;  
// return this.studentName.equals(k.studentName);  
// }  
  
  
  
// public int hashCode(){  
// return studentName.hashCode();  
// }  
  
 @Override  
 public String toString() {  
 return "Name:"+this.studentName+" id:"+this.id;  
 }  
}

C:\Users\Roystan\.jdks\openjdk-21.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea\_rt.jar=61139:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath C:\Users\Roystan\IdeaProjects\JavaWorkspace\out\production\JavaWorkspace Collections.Maps.HashMapDemo

{Name:Anjali id:20001=Karnataka, Name:Ashwini id:24001=Gujrat, Name:Anjali id:20501=Kerala, Name:Geetanjali id:29001=Maharashtra}

Process finished with exit code 0