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class Person  
{  
 private String name;  
 private Integer height;  
 private Double weight;  
 public Person(String name, Integer height, Double weight) {  
 //super();  
 this.name = name;  
 this.height = height;  
 this.weight = weight;  
 }  
 @Override  
 public int hashCode() {  
 final int prime = 31;  
 int result = 1;  
 result = prime \* result + ((height == null) ? 0 : height.hashCode());  
 result = prime \* result + ((name == null) ? 0 : name.hashCode());  
 result = prime \* result + ((weight == null) ? 0 : weight.hashCode());  
 return result;  
 }  
 @Override  
 public boolean equals(Object obj) {  
 if (this == obj)  
 return true;  
 if (obj == null)  
 return false;  
 if (getClass() != obj.getClass())  
 return false;  
 Person other = (Person) obj;  
 if (height == null) {  
 if (other.height != null)  
 return false;  
 } else if (!height.equals(other.height))  
 return false;  
 if (name == null) {  
 if (other.name != null)  
 return false;  
 } else if (!name.equals(other.name))  
 return false;  
 if (weight == null) {  
 if (other.weight != null)  
 return false;  
 } else if (!weight.equals(other.weight))  
 return false;  
 return true;  
 }  
 public String toString()  
 {  
 return "Person[Personname :" +name +"weight: "+weight +" height :" +height ;  
 }  
  
}  
class department  
{  
 private Integer deptId;  
 private String deptname;  
 private String deptloc;  
 public department(Integer deptId, String deptname, String deptloc) {  
 super();  
 this.deptId = deptId;  
 this.deptname = deptname;  
 this.deptloc = deptloc;  
 }  
 public String toString()  
 {  
 return "Department[ departmentname:" +deptname +"deptId: " +deptId +"depatloc: "+deptloc ;  
 }  
  
}

import java.util.HashMap;  
import java.util.LinkedHashMap;  
import java.util.Map;  
import java.util.Set;  
  
public class Assignment3Q2 {  
 public static void main(String[] args) {  
 // *TODO Auto-generated method stub* Person p1=new Person("Dhrama",5,55.50);  
 Person p2=new Person("Bheem",7,60.50);  
 Person p3=new Person("Arjun",6,70.50);  
 Person p4=new Person("Karna",6,75.50);  
 Person p5=new Person("Krishna",7,80.50);  
  
 department d1=new department(1001,"datascience","india");  
 department d2=new department(1002,"cloud","france");  
  
 Map<Person,department> object=new HashMap<>();  
 // Map<Person,department> object=new LinkedHashMap<>();  
 object.put(p1, d1);  
 object.put(p2, d1);  
 object.put(p3, d2);  
 Set<Map.Entry<Person,department>>entryset=object.entrySet();  
 for (Map.Entry<Person,department> entry :entryset)  
 {  
 System.*out*.println(entry.getKey());  
 System.*out*.println(entry.getValue());  
 }  
  
 }  
  
}