1. Use a Hashset to hold employee objects. Upon running application, the details of the employees added to the HashSet should be displayed.

hash.java

**package** generic;

**import** java.util.HashSet;

**public** **class** hash {

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

{

HashSet<emp>set=**new** HashSet<emp>();

emp e=**new** emp(1,"SAM","TAX",25000.0);

set.add(e);

**for**(emp e1:set)

{

System.***out***.println(e.id+" "+e.name+" "+e.dep+" "+e.sal);

}

}

}

Emp.java

**package** generic;

**public** **class** emp {

**int** id;

String name,dep;

**double** sal;

**public** emp(**int** id, String name, String dep, **double** sal)

{

**super**();

**this**.id = id;

**this**.name = name;

**this**.dep = dep;

**this**.sal = sal;

}

}

Output:

101 SAM TAX 25000.0

1. Write an application to hold 10 random int values as key and random double values as values for HashMap. Print the data store in HashMap.

import java.util.HashMap;

public class map

{

public static void main(String[] args)

{

//Map<key,value> map=new HashMap<>();

Map<Integer,Double> map=new HashMap<>();

map.put(34, 33.9);

map.put(67, 67.7);

map.put(96, 56.7);

map.put(35, 3.5);

map.put(11, 33.9);

map.put(25, 5.9);

map.put(99, 89.8);

map.put(56, 23.5);

map.put(84, 98.5);

map.put(54, 87.6);

System.out.println(map);

}

}

Output:

{96=56.7, 34=33.9, 67=67.7, 35=3.5, 99=89.8, 84=98.5, 54=87.6, 56=23.5, 25=5.9, 11=33.9}

1. Design a class named pair which has two properties. The name of the first property is key and that of the second property is value.

a. **import** java.util.\*;

**public** **class** pair {

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

{

Map<String,String> map=**new** HashMap<>();

map.put("Hi", "8");

map.put("hello", "9");

System.***out***.println(map);

}

}

Output:

{Hi=8, hello=9}

b. **import** java.util.\*;

**public** **class** pair1

{

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

{

Map<String,Date> map=**new** HashMap<>();

map.put("Today is", **new** java.util.Date());

System.***out***.println(map);

}

}

Output:

{Today is=Sat Jan 15 21:02:19 IST 2022}