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,"JOE","TAX",30000.0);

set.add(e);

for(emp e1:set)

{

e.Displaydetails();

}

}

}

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;

{

Public void Displaydetails()

{

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

}

}

Output:

101 JOE TAX 30000.0

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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}

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1. Swapping of 2 numbers in array list

package swap;

import java.util.Arrays;

public class swap1 {

public static <T> void swap(int[] arr ,int i1,int i2)

{

int temp = arr[i2];

arr[i2]=arr[i1];

arr[i1]=temp;

}

private static void swap3() {

// TODO Auto-generated method stub

int[] arr= {1,5,3,6,7};

swap(arr,0,2);

System.out.println("swapped" +Arrays.toString(arr));

}

public static void main(String[] args)

{

swap3();

}

}

Output:

swapped[3, 5, 1, 6, 7]

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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}