**1. package** emp;

**public** **class** employee {

**int** id,salary;

String name,department;

**public** employee(**int** id,**int** salary,String name,String department)

{

**this**.id=id;

**this**.salary=salary;

**this**.name=name;

**this**.department=department;

}

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** **int** getSalary() {

**return** salary;

}

**public** **void** setSalary(**int** salary) {

**this**.salary = salary;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getDepartment() {

**return** department;

}

**public** **void** setDepartment(String department) {

**this**.department = department;

}

**public** **void** displayDetails()

{

System.***out***.println("id : "+getId()+" salary: "+getSalary()+" name:

"+getName()+" department: "+getDepartment());

}

}

**public** **class** hashset {

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

{

Set<employee> set=**new** HashSet<>();

employee emp=**new** employee(1, 20000 , "Joy", "marketing");

set.add(emp);

emp.displayDetails();

}}

2. 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);

}}

3. **import** java.lang.reflect.Array;

**import** java.util.ArrayList;

**import** java.util.Arrays;

**public** **class** demo{

**public** **static**<T> **void** swap(T[] a,**int** x,**int** Y) {

T temp=a[x];

a[x]=a[Y];

a[Y]=temp;

}

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

{

String[] a = {"7","4","9"};

System.***out***.println("before swapping" +Arrays.*toString*(a));

*swap*(a,0,2);

System.***out***.println("After:"+Arrays.*toString*(a));

}

}

Output

before swapping[7, 4, 9]

After:[9, 4, 7]

4. 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);

}

}

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);

}}