**Assignment 5**

**1]ANS:-**

public class employee

{

int Id,salary;

String name,department;

public emplyee(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 display()

{

System.out.println("Id :"+getId()+" \nSalary: "+getSalary()+"\nName: "

+getName()+"\nDepartment: "+getDepartment());

}

}

import java.util.\*;

public class Hashset {

public static void main(String[] args)

{

HashSet<emplyee> set=new HashSet<>();

emplyee emp=new emplyee(1206, 15000 , "Rushikesh Kaikade", "IT");

set.add(emp);

emp.display();

}

}

**OUTPUT:-**

Id : 1206

Salary: 15000

Name: Rushikesh Kaikade

Department: IT

**2]ANS:-**

import java.util.HashMap;

public class Map

{

public static void main(String[] args)

{

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

map.put(43, 37.9);

map.put(57, 84.7);

map.put(69, 65.7);

map.put(53, 5.3);

map.put(12, 33.8);

map.put(23, 5.9);

map.put(95, 89.8);

map.put(66, 24.5);

map.put(48, 97.5);

map.put(52, 87.6);

System.out.println(map);

}

}

**OUTPUT:-**

{48=97.5, 66=24.5, 52=87.6, 69=65.7, 53=5.3, 23=5.9, 57=84.7, 43=37.9, 12=33.8, 95=89.8}

**3]ANS:-**

import java.util.ArrayList;

import java.util.Arrays;

import java.util.Collections;

import java.util.List;

public class Test {

public static final <T> void swap (T[] a, int i, int j) {

T t = a[i];

a[i] = a[j];

a[j] = t;

}

public static final <T> void swap (List<T> b, int i, int j) {

Collections.<T>swap(b, i, j);

}

private static void swap1() {

Integer [] a = {12, 60};

swap(a, 0, 1);

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

List<Integer> b = new ArrayList<Integer>(Arrays.asList(a));

swap(b, 0, 1);

System.out.println("b:"+b);

}

public static void main(String...args)

{

swap1();

}}

**OUTPUT:-**

a:[60, 12]

b:[12, 60]

**4ANS:-**

a]:-

import java.util.HashMap;

public class Pair

{

public static void main(String[] args)

{

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

map.put("Rushikesh", "12");

map.put("Kaikade", "60");

System.out.println(map);

}

}

**OUTPUT:-**

{Rushikesh=12, Kaikade=60}

b]:-

import java.util.\*;

public class Pair

{

public static void main(String[] args){

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

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

System.out.println(map)

}}

**OUTPUT:-**

{Today is =Mon Jan 17 19:27:23 IST 2022}