JAVA COLLECTION ASSIGNMENTS

**1st code:**

TreeMap<Long, String> map = new TreeMap<>();

map.put(46953787L,"Harsh");

map.put(47865440L, "Rohan");

map.put(76543680L, "shreya");

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

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

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

**2nd code :**

HashSet<Integer> o = new HashSet<>();

o.add(0);

o.add(2);

o.add(6);

o.add(3);

o.add(6);

o.add(2);

o.add(5);

o.add(7);

o.add(9);

System.out.println(o);

**3rd code:**

Scanner sc = new Scanner(System.in);

TreeSet<details> Employee = new TreeSet<>();

details E1 = new details(01,"Rohan",300, "IT");

details E2 = new details(02, "Harsh", 400, "IT");

details E3 = new details(03, "Abhishek", 700, "IT");

details E4 = new details(04, "Pranjal", 500, "IT");

details E5 = new details(05, "Bhanu", 900, "IT");

details E6 = new details(06, "Afzal", 500, "IT");

details E7 = new details(07, "Jeetu", 200, "IT");

Employee.add(E1);

Employee.add(E2);

Employee.add(E3);

Employee.add(E4);

Employee.add(E5);

Employee.add(E6);

Employee.add(E7);

System.out.println("Enter the information you want to see: \n1. id\n 2. name\n 3. salary\n 4. department");

System.out.println("Enter the number: ");

int num = sc.nextInt();

for(details d:Employee) {

if (num == 1){

System.out.println(d.id);

}

else if (num == 2){

System.out.println(d.name);

}

else if (num == 3){

System.out.println(d.salary);

}

else if (num == 4){

System.out.println(d.department);

}

else {

System.exit(0);

}

// System.out.println(d.id + " " + d.name + " " + d.salary + " " + d.department);

}

}

}

class details implements Comparable<details>{

int id;

String name;

int salary;

String department;

public details(int id, String name, int salary, String department){

this.id = id;

this.name = name;

this.salary = salary;

this.department = department;

}

@Override

public int compareTo(details b) {

if(id>b.id){

return 1;

}else if(id<b.id){

return -1;

}

else

{

return 0;

}

}

}

**4th code:**

import java.util.LinkedList;

import java.util.Scanner;

class leapyear{

int date;

int month;

int year;

public leapyear(int date, int month, int year){

this.date = date;

this.month = month;

this.year = year;

}

}

public class collection {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

LinkedList<leapyear> lp = new LinkedList<>();

System.out.println("Enter the Date of Birth in DD/MM/YYYY");

int date = sc.nextInt();

int month = sc.nextInt();

int year = sc.nextInt();

leapyear l1 = new leapyear(date, month, year);

lp.add(l1);

for (leapyear l: lp){

if(year % 400 == 0){

System.out.println("Your birth's Date is: " + l.date + " - " + l.month + " - " + l.year);

System.out.println("It was a leap year");

}

else if (year % 100 == 0){

System.out.println("Your birth's Date is: " + l.date + " - " + l.month + " - " + l.year);

System.out.println("It was not a leap year");

}

else if (year % 4 == 0){

System.out.println("Your birth's Date is: " + l.date + " - " + l.month + " - " + l.year);

System.out.println("It was a leap year");

}

else {

System.out.println("Your birth's Date is: " + l.date + " - " + l.month + " - " + l.year);

System.out.println("It was a not leap year");

}

}

}

}