Day 4

package students;

import java.util.Set;

import java.util.HashSet;

import java.util.ArrayList;

import java.util.List;

import java.util.Comparator;

import java.util.Collections;

public class task4 {

public static void main(String[] args) {

System.out.println("qno1.MIN and MAX in a list");

ArrayList<Integer> num = new ArrayList<>();

num.add(100);

num.add(50);

num.add(10);

num.add(44);

num.add(100);

System.out.println(num);

Collections.sort(num,Comparator.naturalOrder());

System.out.println("min of the list is "+num.get(0));

Collections.sort(num,Comparator.reverseOrder());

System.out.println("max of the list is "+num.get(0));

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("qno2.Split a list into two halves");

int len = num.size();

int mid = len/2;

System.out.println(num);

System.out.println("First half"+num.subList(0, mid));

System.out.println("second half"+num.subList(mid,len));

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("qno3.Remove Duplicates in arraylist");

System.out.println(num);

Set<Integer> s = new HashSet<Integer>();

for(Integer n : num) {

if(s.add(n) == false)

System.out.println(n + " is duplicated");

}

System.out.println("after remove duplicates ");

System.out.println(s);

}

}