package assignment;

import java.util.\*;

import java.util.Scanner;

import java.util.ArrayList;

import bean.Employee;

import bean.SortbyId;

import bean.SortbyName;

import bean.SortbySalary;

class Assign {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int ch,size;

int id;

String name;

int salary;

System.out.println("Enter the number of employee you have");

size=sc.nextInt();

ArrayList<Employee>e=new ArrayList<Employee>();

for(int i=0;i<size;i++)

{

System.out.println("Enter the id's");

id=sc.nextInt();

System.out.println("Enter the name");

sc.nextLine();

name=sc.nextLine();

System.out.println("Enter the salary");

salary=sc.nextInt();

e.add(new Employee(id,name,salary));

}

System.out.println("Enter your option:");

System.out.println("sort id");

System.out.println("sort name");

System.out.println("sort salary");

ch=sc.nextInt();

switch (ch)

{

case 1:

Collections.sort(e, new SortbyId());

System.out.println("\nSorted by id");

for (int i=0; i<e.size(); i++)

System.out.println(e.get(i));

break;

case 2:

Collections.sort(e, new SortbyName());

System.out.println("\nSorted by name");

for (int i=0; i<e.size(); i++)

System.out.println(e.get(i));

break;

case 3:

Collections.sort(e, new SortbySalary());

System.out.println("\nSorted by salary");

for (int i=0; i<e.size(); i++)

System.out.println(e.get(i));

break;

default:

System.out.println("Invalid option:");

break;

}

}

}

**package** bean;

**public** **class** Employee {

**public** Employee() {

**super**();

// **TODO** Auto-generated constructor stub

}

**private** **int** id;

**private** String name;

**private** **int** salary;

**public** Employee(**int** id, String name, **int** salary) {

**this**.id= id;

**this**.name = name;

**this**.salary = salary;

}

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

**return** id;

}

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

**this**.id = id;

}

**public** String getName() {

**return** name;

}

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

**this**.name = name;

}

**public** **float** getSalary() {

**return** salary;

}

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

**this**.salary = salary;

}

@Override

**public** String toString() {

**return** "Employee [id=" + id + ", name=" + name + ", salary=" + salary + "]";

}

}

**package** bean;

**import** java.util.\*;

//import bean.Employee;

**public** **class** SortbyId **implements** Comparator<Employee>

{

**public** **int** compare(Employee x, Employee y)

{

**return** x.getId() - y.getId();

}

}

**package** bean;

**import** java.util.\*;

//import bean.Employee;

**public** **class** SortbyName **implements** Comparator<Employee>

{

**public** **int** compare(Employee x, Employee y)

{

**return** x.getName().compareTo(y.getName());

}

}

**package** bean;

**import** java.util.\*;

//import bean.Employee;

**public** **class** SortbySalary **implements** Comparator<Employee>

{

**public** **int** compare(Employee x, Employee y)

{

**return** (**int**) (x.getSalary() - y.getSalary());

}

}