package com.felight.employee;

//import calci.Calculator;

import java.util.\*;

public **class Test** {

public static void main(String[] arg) {

Employee[] emp = new Employee[5];

for (int j = 0; j < emp.length; j++) {

String ran = Employee.randomString();

emp[j] = new Employee((int)(Math.random()\*1000),ran,(long)(Math.random()\*100000));

}

System.out.println("-----Employee Details:-------");

for (int j = 0; j < emp.length; j++) {

System.out.println(emp[j]);

}

Employee[] obj = Employee.sortById(emp);

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

for (int i = 0; i < emp.length; i++) {

System.out.println(obj[i]);

}

Employee[] obj1 = Employee.sortByNameLength(emp);

System.out.println("----sort by Length of the Name----");

for (int i = 0; i < emp.length; i++) {

System.out.println(obj1[i].toString());

}

Employee[] obj2 = Employee.sortBySalary(emp);

System.out.println("----sort by Salary----");

for (int i = 0; i < emp.length; i++) {

System.out.println(obj2[i].toString());

}

}

}

package com.felight.employee;

//import calci.Calculator;

public **class Employee** {

private int id;

public int getId() {

return id;

}

public int getNameLength(){

int x =name.length();

return x;

}

public void setId(int id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public double getSalary() {

return salary;

}

public void setSalary(double salary) {

this.salary = salary;

}

private String name;

public double salary;

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

this.id = id;

this.name = name;

this.salary = salary;

}

public void printName(int id, Employee[] obj, double salary){

}

@Override

public String toString() {

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

}

public static String randomString() {

int length = (int)(Math.random()\*10);

char[] ch = new char[length];

char c =' ';

for(int j=0;j<length;j++) {

while(!(c >= 97 && c <= 122)) {

c = (char) (Math.random()\*1000);

continue;

}

ch[j] = c;

}

return String.valueOf(ch);

}

public static Employee[] sortById(Employee[] obj) {

Employee temp;

int min = 0;

for(int i=0;i<obj.length-1;i++) {

min=i;

for(int j=i+1;j<obj.length;j++)

if (obj[min].getId() > obj[j].getId())

min=j;

if(i!=min) {

temp = obj[i];

obj[i] = obj[min];

obj[min] = temp;

}

}

return obj;

}

public static Employee[] sortByNameLength(Employee[] obj) {

Employee temp;

int min = 0;

for(int i=0;i<obj.length-1;i++) {

min=i;

for(int j=i+1;j<obj.length;j++)

if (obj[min].getNameLength() > obj[j].getNameLength())

min=j;

if(i!=min) {

temp = obj[i];

obj[i] = obj[min];

obj[min] = temp;

}

}

return obj;

}

public static Employee[] sortBySalary(Employee[] obj) {

Employee temp;

int min = 0;

for(int i=0;i<obj.length-1;i++) {

min=i;

for(int j=i+1;j<obj.length;j++)

if (obj[min].getSalary() > obj[j].getSalary())

min=j;

if(i!=min) {

temp = obj[i];

obj[i] = obj[min];

obj[min] = temp;

}

}

return obj;

}

}

