# 2 dalis

## 1 užduotis

Line klasė:

public class Line {  
 Point pointFirst;  
 Point pointSecond;  
  
 Line () {}  
  
 Line (Point \_pointFirst,Point \_pointSecond){  
 pointFirst = \_pointFirst;  
 pointSecond = \_pointSecond;  
 }  
  
 public void setLine(Point \_pointFirst,Point \_pointSecond){  
 pointFirst = \_pointFirst;  
 pointSecond = \_pointSecond;  
 }  
  
 public Point getPointFirst(){  
 return pointFirst;  
 }  
  
 public Point getPointSecond(){  
 return pointSecond;  
 }  
  
 public String toString(){  
 return pointFirst.toString() + "-" + pointSecond.toString();  
 }  
  
 public Double distance(){  
 return Math.*sqrt*(Math.*pow*(pointSecond.getX() - pointFirst.getX(),2) + Math.*pow*(pointSecond.getY() - pointFirst.getY(),2));  
 }  
}

Main klasė:

public class MainPart3 {  
 public static void main(String[] args) {  
 Point point1 = new Point(2,4);  
 Point point2 = new Point(4,4);  
  
 Line line = new Line(point1, point2);  
 System.*out*.println(line);  
 System.*out*.println(line.distance());  
 }  
}

## 2 užduotis

Darbuotojo klasė:

Public class Employee {  
 private String name;  
 private String surname;  
 private Double salary;  
  
 Employee(){ }  
  
 public Employee(String \_name, String \_surname, Double \_salary){  
 name = \_name;  
 surname = \_surname;  
 salary = \_salary;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public String getSurname(){  
 return surname;  
 }  
  
 public Double getSalary(){  
 return salary;  
 }  
  
 public Double incomeTax(){  
 return salary \* 0.15;  
 }  
  
 public Double sodraTax(){  
 return salary \* 0.09;  
 }  
}

Įmonės klasė:

public class Company {  
 String title;  
 int companyCode;  
 Employee employees[];  
  
 Company(String \_title, int \_companyCode, Employee[] \_employees){  
 title = \_title;  
 companyCode = \_companyCode;  
 employees = \_employees;  
 }  
  
 public void addEmployee(Employee employee){  
 for (int i=0; i<employees.length; i++){  
 if(employees[i] == null) {  
 employees[i] = employee;  
 break;  
 }  
 }  
 }  
  
 public void deleteEmployee(int index){  
 for (int i = index; i < employees.length - 1; i++) {  
 employees[i] = employees[i + 1];  
 }  
 }  
  
 public String toString(){  
  
 String info = "Įmonės pavadinimas: " + title + "\n";  
 info = info + "Įmonės kodas: " + companyCode + "\n";  
 info = info + "" + "\n";  
 info = info + "Darbuotojai:" + "\n";  
 for (int i=0; i<employees.length; i++){  
 if(employees[i] != null) {  
 int index = i+1;  
 info = info + index + " " +employees[i].getName()  
 + " " + employees[i].getSurname()  
 + " " + employees[i].getSalary() + "\n";  
 }  
  
 }  
  
 return info;  
 }  
}

Main klasė:

public class part4Main {  
  
 public static void main(String[] args) {  
 Employee person[] = new Employee[10];  
 person[0] = new Employee("Jonas", "Jonaitis", 900.00);  
 person[1] = new Employee("Petras", "Petraitis", 1000.00);  
 person[2] = new Employee("Kazys", "Kaziukas", 800.00);  
  
 Company company = new Company("Įmonė", 123456789, person);  
  
  
 String[] menu = {  
 "0 - Baigti darbą",  
 "1 - Išvesti įmonės informaciją",  
 "2 - Įtraukti naują darbuotoją",  
 "3 - Ištrinti darbuotoją"  
 };  
 boolean work = true;  
  
  
 while (work) {  
 for (String menuPoint : menu) {  
 System.*out*.println(menuPoint);  
 }  
 Scanner input = new Scanner(System.*in*);  
 int menuInput = input.nextInt();  
 switch (menuInput) {  
 case 0: {  
 work = false;  
 break;  
 }  
 case 1: {  
 System.*out*.println(company);  
 break;  
 }  
 case 2: {  
 System.*out*.println("Įveskite vardą:");  
 String name = input.next();  
 System.*out*.println("Įveskite pavardę:");  
 String surname = input.next();  
 System.*out*.println("Įveskite atlyginimą:");  
 Double salary = input.nextDouble();  
  
 Employee newPerson = new Employee(name, surname, salary);  
 company.addEmployee(newPerson);  
  
 System.*out*.println(company);  
  
 break;  
 }  
 case 3: {  
 System.*out*.println("Įveskite darbuotojų numerį, kurį norite pašalinti");  
 int index = input.nextInt();  
 company.deleteEmployee(index-1);  
  
 System.*out*.println(company);  
  
 break;  
 }  
 default:  
 System.*out*.println("Įvesta netinkama reikšmė");  
 System.*out*.println("");  
 }  
  
 }  
  
 }  
 }