

```
1 /**
2  * @author David Maglica
3  */
4
5 import java.util.Scanner;
6
7 public class Main {
8     public static void main(String[] args) {
9
10         // Kreiranje i ispis podataka o osobi
11         Person person = new Person("David", "Maglica");
12         person.displayDetails();
13
14         // Kreiranje i ispis podataka o studentu
15         String[] professors = new String[] {"Tanković", "Sovilj", "Brborović"};
16
17         String[] studentSubjects = new String[] {"Dist Sys", "STP", "Matematička logika"};
18
19         Student student = new Student("David", "Maglica", 1, studentSubjects, professors);
20         student.displayDetails();
21
22         // Kreiranje i ispis podataka o profesoru
23         String[] professorSubjects = new String[] {"Robotika", "3D modeliranje"};
24         Teacher teacher = new Teacher("Marko", "Markić", professorSubjects, 7500);
25         teacher.displayDetails();
26
27         // Scanner za primanje podataka sa tipkovnice
28         Scanner sc = new Scanner(System.in);
29
30         // question provjerava ako korisnik želi uopće upisati neke podatke
31         String question;
32         // input nam treba za korištenje ponuđenog menija
33         int input = 0;
34
35         System.out.println("\nŽelite li dodati još nekoga? (da/ne)");
36         question = sc.next();
37
38         while (question.equalsIgnoreCase("da")) {
39
40             while (input == 0) {
41                 System.out.println("\nŽelite li dodati: " +
42                     "\n\t1. Osobu" +
43                     "\n\t2. Studenta" +
44                     "\n\t3. Profesora" +
45                     "\n\t9. Izlaz iz programa");
46                 input = sc.nextInt();
47             }
48
49             while (input == 1) {
50                 System.out.println("\n--- Odлучili ste dodati osobu ---\n");
51                 String name, surname;
52
53                 System.out.println("Ime: ");
54                 name = sc.next();
55                 System.out.println("Prezime: ");
56                 surname = sc.next();
57
58                 Person p = new Person(name, surname);
59                 System.out.println("- Uspjesno dodana osoba -");
60             }
61         }
62     }
63 }
```

```

61         p.displayDetails();
62         // input vraćamo na 0 kako bi nam se ponovo prikazao meni
63         input = 0;
64     }
65
66     while (input == 2) {
67         System.out.println("\n--- Odlučili ste dodati studenta ---\n");
68         String name, surname;
69         int id;
70         String[] kolegiji = new String[5];
71         String[] profesori = new String[5];
72         int i;
73
74         System.out.println("Ime: ");
75         name = sc.next();
76         System.out.println("Prezime: ");
77         surname = sc.next();
78         System.out.println("Id: ");
79         id = sc.nextInt();
80
81         System.out.println("Koliko kolegija sluša student? (Max. 5)");
82         i = sc.nextInt();
83         for (int counter = 0; counter < i; counter++) {
84             int x = counter + 1;
85             System.out.println("Kolegij br." + x);
86             kolegiji[counter] = sc.next();
87         }
88
89         System.out.println("Profesori (jedan za svaki predmet): ");
90         for (int counter = 0; counter < i; counter++) {
91             int x = counter + 1;
92             System.out.println("Profesor iz kolegija " + kolegiji[counter] + " :");
93             profesori[counter] = sc.next();
94         }
95
96         Student s = new Student(name, surname, id, kolegiji, profesori);
97         System.out.println("\n- Uspjesno dodan student -");
98         s.displayDetails();
99         // input vraćamo na 0 kako bi nam se ponovo prikazao meni
100        input = 0;
101    }
102
103    while (input == 3) {
104        System.out.println("\n--- Odlučili ste dodati profesora ---\n");
105        String name, surname;
106        int salary;
107        String[] kolegiji = new String[5];
108        int i;
109
110        System.out.println("Ime: ");
111        name = sc.next();
112        System.out.println("Prezime: ");
113        surname = sc.next();
114        System.out.println("Plaća: ");
115        salary = sc.nextInt();
116
117        System.out.println("Koliko kolegija predaje profesor? (Max. 5)");
118        i = sc.nextInt();
119        for (int counter = 0; counter < i; counter++) {
120            int x = counter + 1;

```

```
121         System.out.println("Kolegij br." + x);
122         kolegiji[counter] = sc.next();
123     }
124
125     Teacher t = new Teacher(name, surname, kolegiji, salary);
126     System.out.println("\n- Uspješno dodan profesor -");
127     t.displayDetails();
128     // input vraćamo na 0 kako bi nam se ponovo prikazao meni
129     input = 0;
130 }
131 while (input == 9) {
132     // Korisnik ne želi dodati nove podatke -> question = "ne" i break
133     question = "ne";
134     break;
135 }
136 }
137 }
138 }
```

```
1 public class Person {
2     private String name, surname;
3
4     // Konstruktor osobe
5     public Person(String name, String surname) {
6         this.name = name;
7         this.surname = surname;
8     }
9
10    // Getteri i setteri za osobu
11    public String getName() {
12        return name;
13    }
14
15    public void setName(String name) {
16        this.name = name;
17    }
18
19    public String getSurname() {
20        return surname;
21    }
22
23    public void setSurname(String surname) {
24        this.surname = surname;
25    }
26
27    // Metoda za ispis detalja osobe
28    public void displayDetails() {
29        System.out.println("Name and surname: " + getName() + " " + getSurname());
30    }
31 }
32
```

```
1 import java.util.ArrayList;
2
3 public class Student extends Person {
4     private int studentId;
5     String enrolledClasses[] = new String[30];
6     String professorName[] = new String[30];
7
8     // Konstruktor studenta
9     public Student (String name, String surname, int studentId, String enrolledClasses[],
10 String professorName[]) {
11         super(name, surname);
12         this.studentId = studentId;
13
14         System.arraycopy(enrolledClasses, 0, this.enrolledClasses, 0, enrolledClasses.length);
15
16         System.arraycopy(professorName, 0, this.professorName, 0, professorName.length);
17     }
18
19     // Getter i Setter za Id studenta
20     public int getStudentId() {
21         return studentId;
22     }
23
24     public void setStudentId(int studentId) {
25         this.studentId = studentId;
26     }
27
28     // Nadjačana metoda ispisa detalja tako da ispisuje podatke studenta
29     @Override
30     public void displayDetails() {
31         System.out.println("\nIme i prezime studenta: " + getName() + " " + getSurname() + "
32 \nID: " + getStudentId());
33
34         for (int x = 0;
35             enrolledClasses[x] != null && professorName[x] != null &&
36             x < enrolledClasses.length && x < professorName.length;
37             x++) {
38             System.out.println("Upisani predmet: " + enrolledClasses[x] + "\tPrezime
39 profesora: " + professorName[x]);
40         }
41     }
42 }
```

```
1 public class Teacher extends Person {
2     private String subjectName[] = new String[30];
3     private int salary;
4
5     // Konstruktor profesora
6     public Teacher(String name, String surname, String[] subjectName, int salary) {
7         super(name, surname);
8         this.salary = salary;
9         System.arraycopy(subjectName, 0, this.subjectName, 0, subjectName.length);
10    }
11
12    // Getteri i Setteri
13    public String[] getSubjectName() {
14        return subjectName;
15    }
16
17    public void setSubjectName(String[] subjectName) {
18        this.subjectName = subjectName;
19    }
20
21    public int getSalary() {
22        return salary;
23    }
24
25    public void setSalary(int salary) {
26        this.salary = salary;
27    }
28
29    // Nadjačana metoda ispisa detalja tako da ispisuje podatke profesora
30    @Override
31    public void displayDetails() {
32        System.out.println("\nProfesor: " + getName() + " " + getSurname() + "\nSalary: " +
33        getSalary()
34        + "\nSubjects: ");
35        for (int x = 0;
36            subjectName[x] != null && x < subjectName.length;
37            x++) {
38            System.out.println("\t" + subjectName[x]);
39        }
40    }
41
```

```
1 "C:\Program Files\BellSoft\LibericaJDK-19-Full\bin\java.exe" "-javaagent:C:\Program Files\
JetBrains\IntelliJ IDEA 2022.2.3\lib\idea_rt.jar=59742:C:\Program Files\JetBrains\IntelliJ
IDEA 2022.2.3\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=
UTF-8 -classpath D:\Faks\SuvremeneTehnikeProgramiranja\Zadace\zadaca04.A\out\production\
zadaca04.A Main
2 Name and surname: David Maglica
3
4 Ime i prezime studenta: David Maglica
5 ID: 1
6 Upisani predmet: Dist Sys   Prezime profesora: Tanković
7 Upisani predmet: STP       Prezime profesora: Sovilj
8 Upisani predmet: Matematička logika Prezime profesora: Brborović
9
10 Profesor: Marko Markić
11 Salary: 7500
12 Subjects:
13     Robotika
14     3D modeliranje
15
16 Želite li dodati još nekoga? (da/ne)
17 da
18
19 Želite li dodati:
20     1. Osobu
21     2. Studenta
22     3. Profesora
23     9. Izlaz iz programa
24 1
25
26 --- Odлучili ste dodati osobu ---
27
28 Ime:
29 Ivan
30 Prezime:
31 Horvat
32 - Uspjesno dodana osoba -
33 Name and surname: Ivan Horvat
34
35 Želite li dodati:
36     1. Osobu
37     2. Studenta
38     3. Profesora
39     9. Izlaz iz programa
40 2
41
42 --- Odлучili ste dodati studenta ---
43
44 Ime:
45 Luka
46 Prezime:
47 Lukić
48 Id:
49 1
50 Koliko kolegija sluša student? (Max. 5)
51 3
52 Kolegij br.1
53 Matematika
54 Kolegij br.2
55 Programiranje
56 Kolegij br.3
```

```
57 Računarstvo
58 Profesori (jedan za svaki predmet):
59 Profesor iz kolegija Matematika :
60 Filipović
61 Profesor iz kolegija Programiranje :
62 Tomić
63 Profesor iz kolegija Računarstvo :
64 Davidović
65
66 - Uspjesno dodan student -
67
68 Ime i prezime studenta: Luka Lukić
69 ID: 1
70 Upisani predmet: Matematika Prezime profesora: Filipović
71 Upisani predmet: Programiranje Prezime profesora: Tomić
72 Upisani predmet: Računarstvo Prezime profesora: Davidović
73
74 Želite li dodati:
75     1. Osobu
76     2. Studenta
77     3. Profesora
78     9. Izlaz iz programa
79 3
80
81 --- Odlučili ste dodati profesora ---
82
83 Ime:
84 Luka
85 Prezime:
86 Tomac
87 Plaća:
88 8500
89 Koliko kolegija predaje profesor? (Max. 5)
90 2
91 Kolegij br.1
92 Engleski
93 Kolegij br.2
94 Ekonomija
95
96 - Uspješno dodan profesor -
97
98 Profesor: Luka Tomac
99 Salary: 8500
100 Subjects:
101     Engleski
102     Ekonomija
103
104 Želite li dodati:
105     1. Osobu
106     2. Studenta
107     3. Profesora
108     9. Izlaz iz programa
109 9
110
111 Process finished with exit code 0
112
```