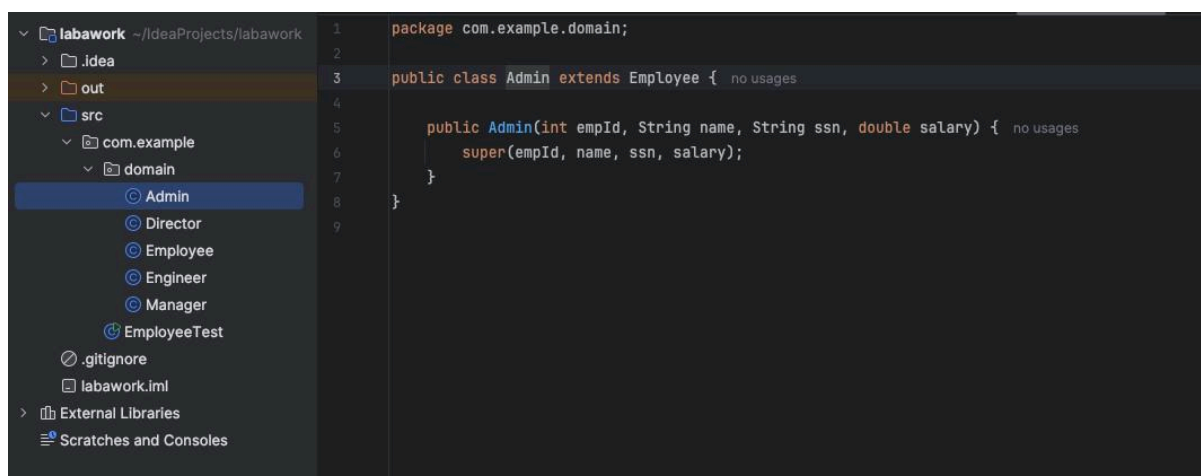
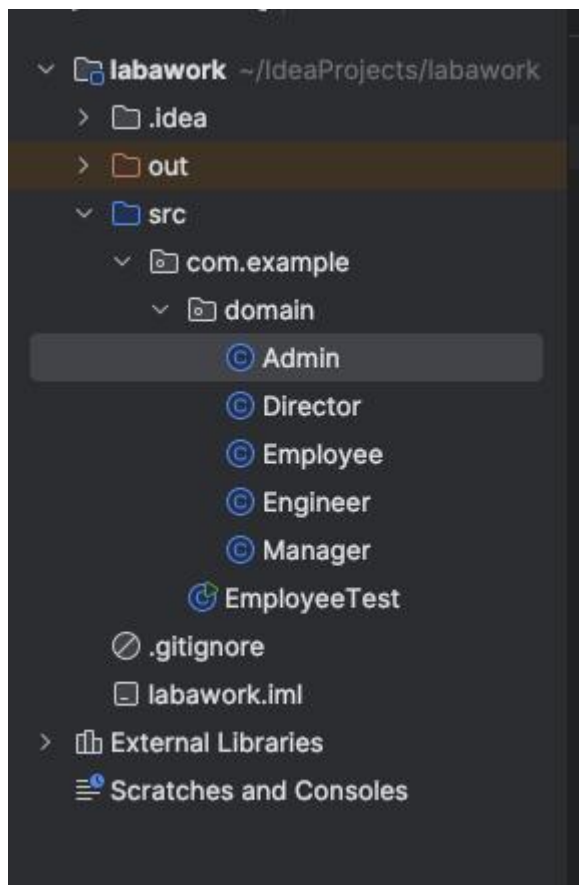


Лабораторная работа №3
Тарвердян Сима Арменовна
Группа 253-324

Код:



labawork ~//IdeaProjects/labawork

> .idea

> out

src

com.example

domain

Admin

Director

Employee

Engineer

Manager

EmployeeTest

.gitignore

labawork.iml

> External Libraries

Scratches and Consoles

1 package com.example.domain;

2

3 public class Director extends Manager { 3 usages

4

5 private double budget; 2 usages

6

7 public Director(int empId, String name, String ssn, double salary, 1 usage

8 String deptName, double budget) {

9 super(empId, name, ssn, salary, deptName);

10 this.budget = budget;

11 }

12

13 public double getBudget() { no usages

14 return budget;

15 }

16 }

17

labawork ~//IdeaProjects/labawork

> .idea

> out

src

com.example

domain

Admin

Director

Employee

Engineer

Manager

EmployeeTest

.gitignore

labawork.iml

> External Libraries

Scratches and Consoles

1 package com.example.domain;

2

3 public class Employee { 5 usages 4 inheritors

4

5 private int empId; 2 usages

6 private String name; 3 usages

7 private String ssn; 2 usages

8 private double salary; 3 usages

9

10 public Employee(int empId, String name, String ssn, double salary) { 3 usages

11 this.empId = empId;

12 this.name = name;

13 this.ssn = ssn;

14 this.salary = salary;

15 }

16

17 public void setName(String name) { no usages

18 this.name = name;

19 }

20

21 public void raiseSalary(double increase) { no usages

22 if (increase > 0) {

23 salary += increase;

24 }

25 }

26

27 public int getEmpId() { 1 usage

28 return empId;

29 }

30

31 public String getName() { 1 usage

32 return name;

33 }

```
labawork ~/IdeaProjects/labawork
├── .idea
├── out
├── src
│   ├── com.example
│   │   └── domain
│   │       ├── Admin
│   │       ├── Director
│   │       ├── Employee
│   │       ├── Engineer
│   │       ├── Manager
│   │       └── EmployeeTest
│   ├── .gitignore
│   └── labawork.iml
├── External Libraries
└── Scratches and Consoles

3 public class Employee { 5 usages 4 inheritors
4     public void setName(String name) { no usages
5         this.name = name;
6     }
7
8     public void raiseSalary(double increase) { no usages
9         if (increase > 0) {
10             salary += increase;
11         }
12     }
13
14     public int getEmpId() { 1 usage
15         return empId;
16     }
17
18     public String getName() { 1 usage
19         return name;
20     }
21
22     public String getSsn() { 1 usage
23         return ssn;
24     }
25
26     public double getSalary() { 1 usage
27         return salary;
28     }
29 }
30
31
32
33
34
35
36
37
38
39
40
41
42
43
```

```
labawork ~/IdeaProjects/labawork
├── .idea
├── out
├── src
│   ├── com.example
│   │   └── domain
│   │       ├── Admin
│   │       ├── Director
│   │       ├── Employee
│   │       ├── Engineer
│   │       ├── Manager
│   │       └── EmployeeTest
│   ├── .gitignore
│   └── labawork.iml
├── External Libraries
└── Scratches and Consoles

1 package com.example.domain;
2
3 public class Engineer extends Employee { no usages
4
5     public Engineer(int empId, String name, String ssn, double salary) { no usages
6         super(empId, name, ssn, salary);
7     }
8 }
9
```

```
labawork ~/IdeaProjects/labawork
├── .idea
├── out
├── src
│   ├── com.example
│   │   └── domain
│   │       ├── Admin
│   │       ├── Director
│   │       ├── Employee
│   │       ├── Engineer
│   │       ├── Manager
│   │       └── EmployeeTest
│   ├── .gitignore
│   └── labawork.iml
├── External Libraries
└── Scratches and Consoles

1 package com.example.domain;
2
3 public class Manager extends Employee { no usages 1 inheritor
4
5     private String deptName; 2 usages
6
7     public Manager(int empId, String name, String ssn, double salary, String deptName) { no usages
8         super(empId, name, ssn, salary);
9         this.deptName = deptName;
10    }
11
12    public String getDeptName() { no usages
13        return deptName;
14    }
15 }
16 #DL to Chat, #I to Command
```

```
1 package com.example;
2
3 import com.example.domain.Admin;
4 import com.example.domain.Director;
5 import com.example.domain.Engineer;
6 import com.example.domain.Manager;
7 import com.example.domain.Employee;
8
9 public class EmployeeTest {
10
11     public static void main(String[] args) {
12
13         Engineer eng = new Engineer(
14             empId: 101, name: "Jane Smith", ssn: "012-34-5678", salary: 120_345.27);
15
16         Manager mgr = new Manager(
17             empId: 207, name: "Barbara Johnson", ssn: "054-12-2367", salary: 109_501.36, deptName: "US Marketing");
18
19         Admin adm = new Admin(
20             empId: 304, name: "Bill Munroe", ssn: "108-23-2367", salary: 75_002.34);
21
22         Director dir = new Director(
23             empId: 12, name: "Susan Wheeler", ssn: "099-45-2340", salary: 120_567.36,
24             deptName: "Global Marketing", budget: 1_000_000.00);
25
26         printEmployee(eng);
27         printEmployee(mgr);
28         printEmployee(adm);
29         printEmployee(dir);
30     }
31 }
```

```
9 public class EmployeeTest {
10
11     public static void main(String[] args) {
12
13         Manager mgr = new Manager(
14             empId: 207, name: "Barbara Johnson", ssn: "054-12-2367", salary: 109_501.36, deptName: "US Marketing");
15
16         Admin adm = new Admin(
17             empId: 304, name: "Bill Munroe", ssn: "108-23-2367", salary: 75_002.34);
18
19         Director dir = new Director(
20             empId: 12, name: "Susan Wheeler", ssn: "099-45-2340", salary: 120_567.36,
21             deptName: "Global Marketing", budget: 1_000_000.00);
22
23         printEmployee(eng);
24         printEmployee(mgr);
25         printEmployee(adm);
26         printEmployee(dir);
27     }
28
29     private static void printEmployee(Employee emp) { 4 usages
30         System.out.println("Employee ID: " + emp.getEmpId());
31         System.out.println("Employee Name: " + emp.getName());
32         System.out.println("Employee Soc Sec #: " + emp.getSsn());
33         System.out.println("Employee salary: " + emp.getSalary());
34         System.out.println("-----");
35     }
36 }
```

```
/Users/twers1/Library/Java/JavaVirtualMachines/openjdk-25.0.1/Contents/Home/bin/java -javaagent:/Ap
Employee ID: 101
Employee Name: Jane Smith
Employee Soc Sec #: 012-34-5678
Employee salary: 120345.27
-----
Employee ID: 207
Employee Name: Barbara Johnson
Employee Soc Sec #: 054-12-2367
Employee salary: 109501.36
-----
Employee ID: 304
Employee Name: Bill Munroe
Employee Soc Sec #: 108-23-2367
Employee salary: 75002.34
-----
Employee ID: 12
Employee Name: Susan Wheeler
Employee Soc Sec #: 099-45-2340
Employee salary: 120567.36
-----

Process finished with exit code 0
```