Лабораторная работа №3

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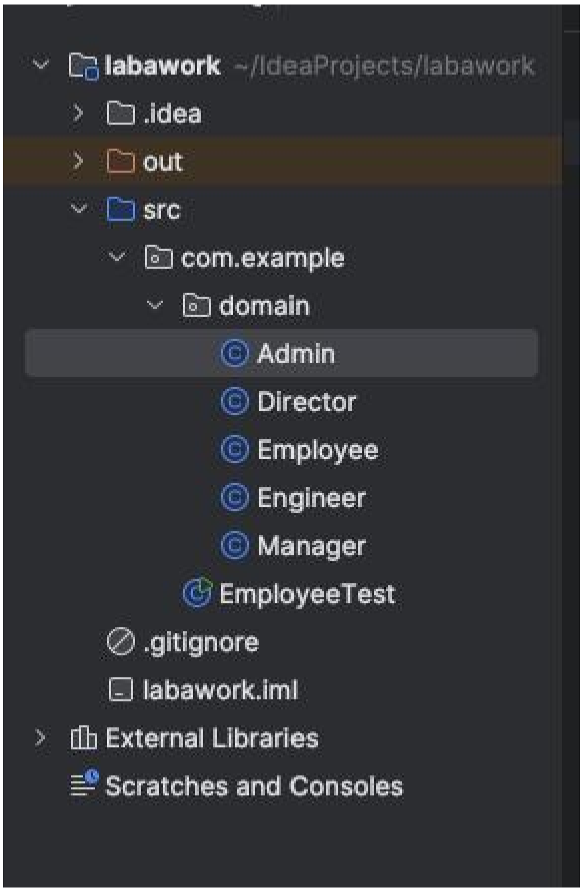
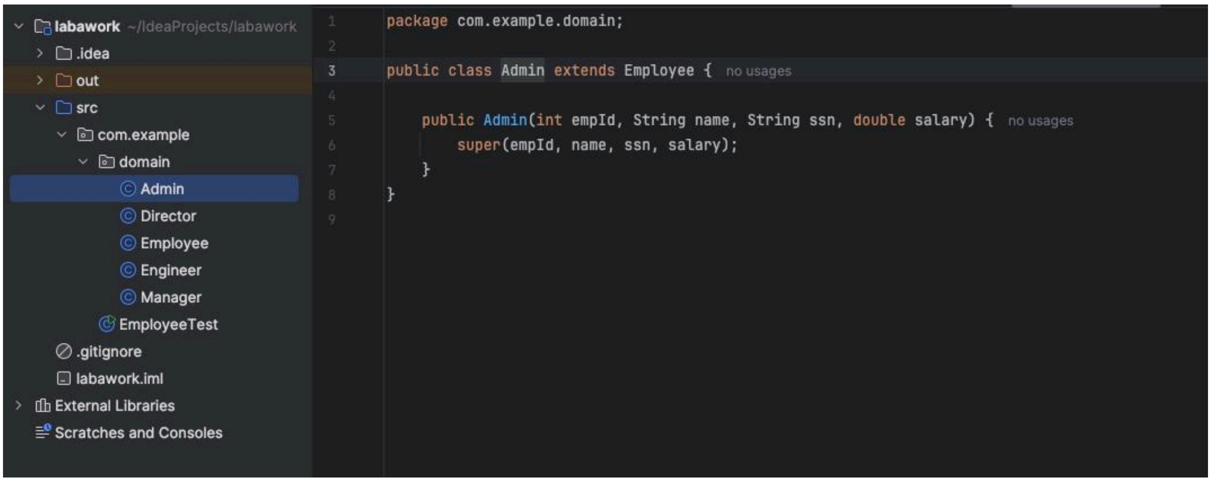
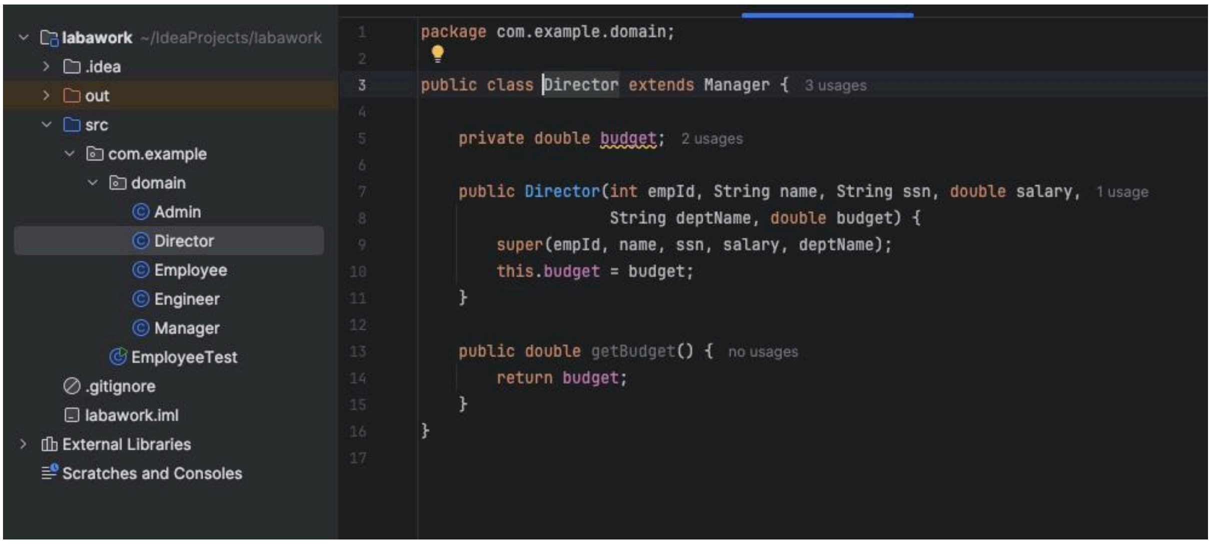
Группа 253-324

Код:

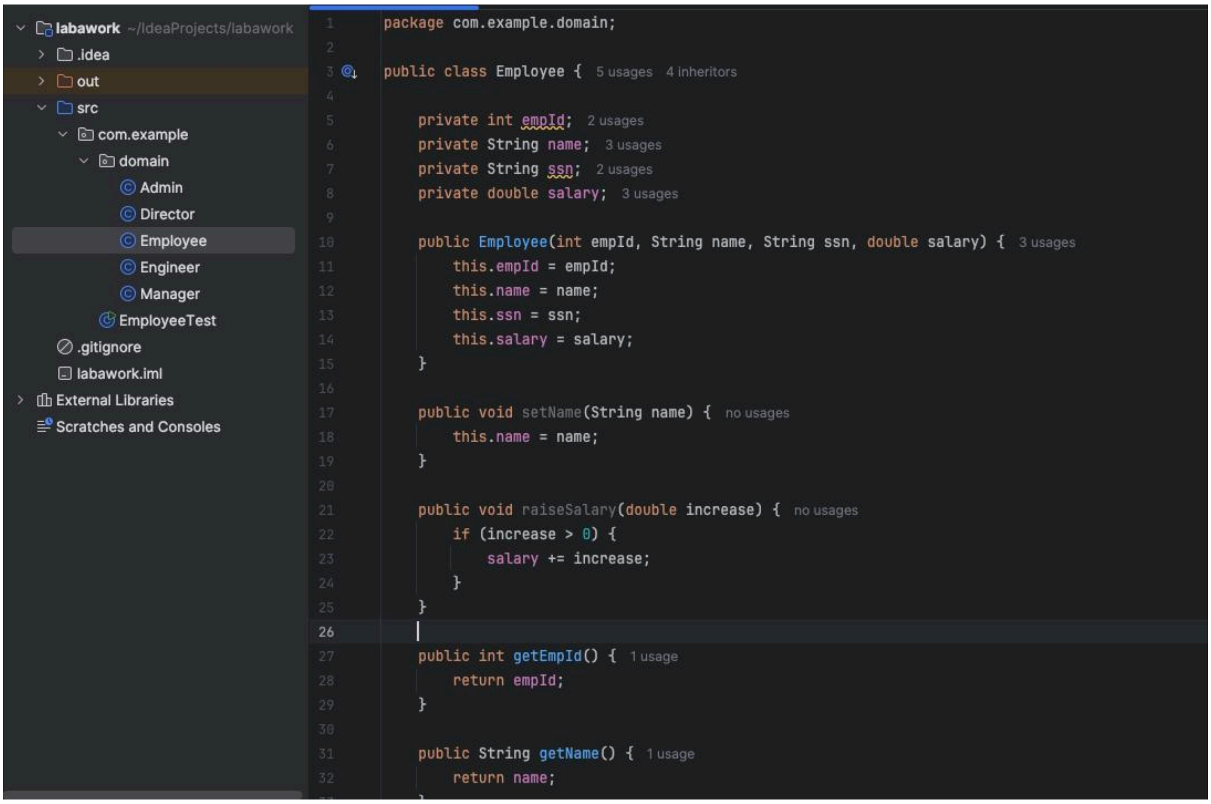




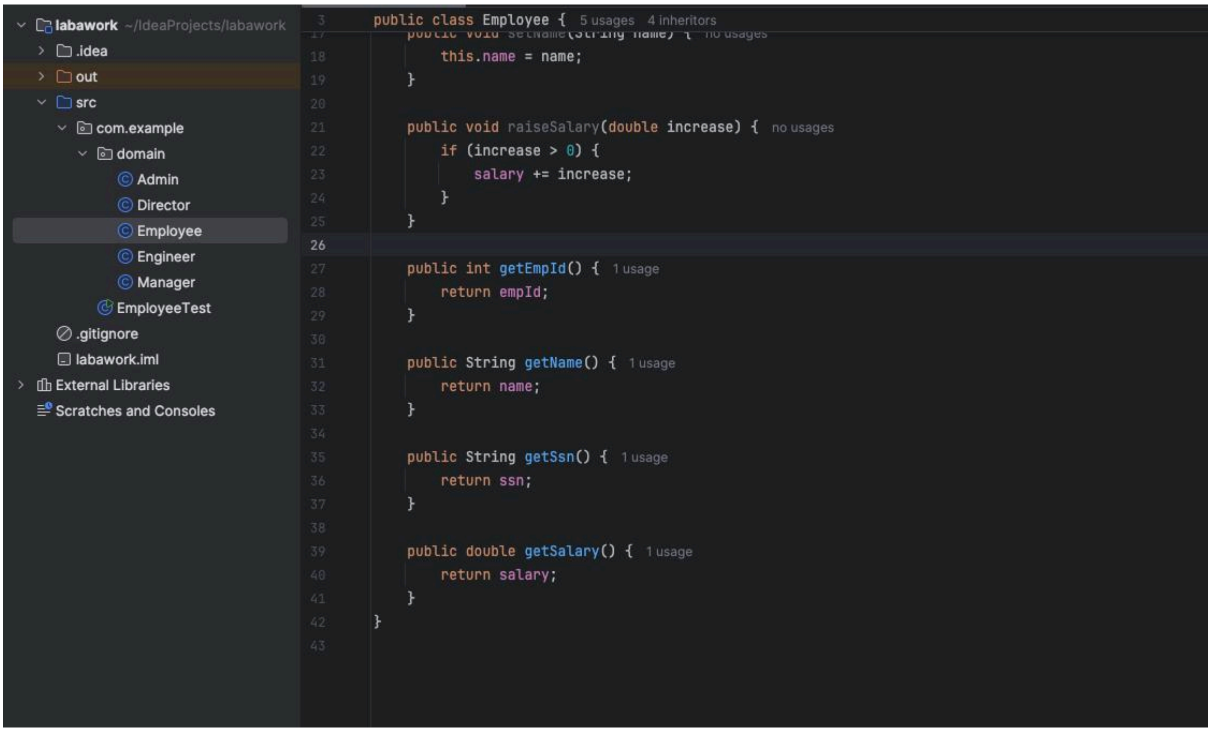
```java
package com.example.domain;

public class Admin extends Employee {

    public Admin(int empId, String name, String ssn, double salary) {
        super(empId, name, ssn, salary);
    }
}
```



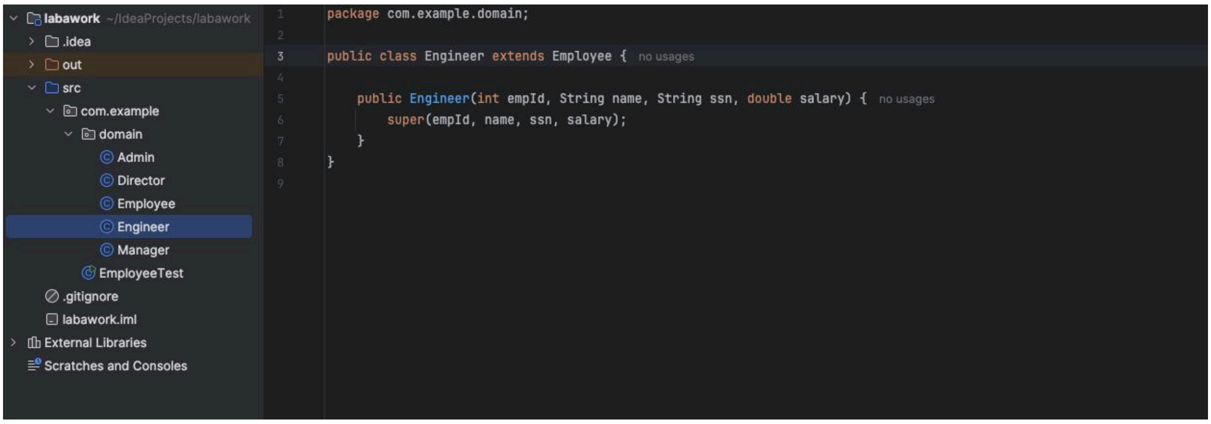
```java
package com.example.domain;

public class Director extends Manager {  3 usages

    private double budget;  2 usages

    public Director(int empId, String name, String ssn, double salary,  1 usage
                    String deptName, double budget) {
        super(empId, name, ssn, salary, deptName);
        this.budget = budget;
    }

    public double getBudget() {  no usages
        return budget;
    }
}
```



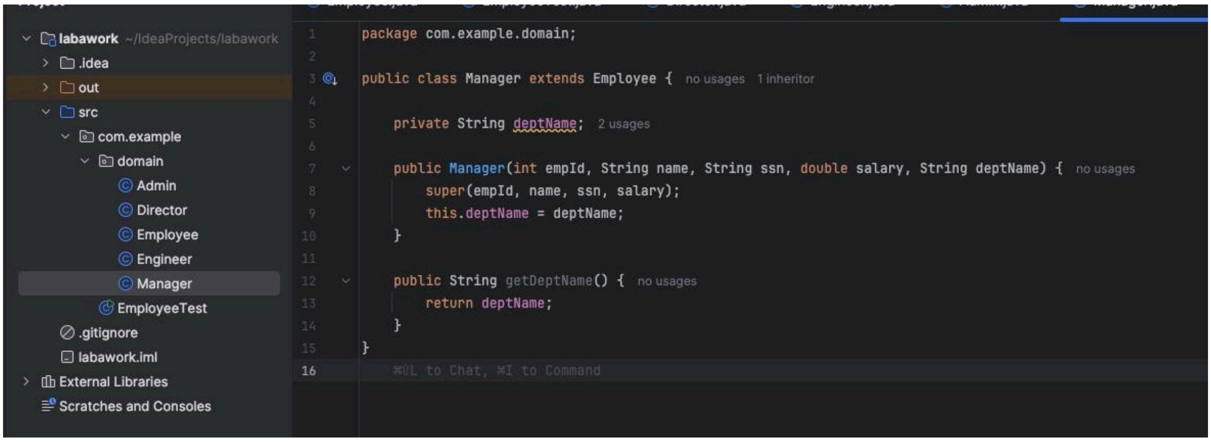
```java
package com.example.domain;

public class Employee {  5 usages  4 inheritors

    private int empId;  2 usages
    private String name;  3 usages
    private String ssn;  2 usages
    private double salary;  3 usages

    public Employee(int empId, String name, String ssn, double salary) {  3 usages
        this.empId = empId;
        this.name = name;
        this.ssn = ssn;
        this.salary = salary;
    }

    public void setName(String name) {  no usages
        this.name = name;
    }

    public void raiseSalary(double increase) {  no usages
        if (increase > 0) {
            salary += increase;
        }
    }

    public int getEmpId() {  1 usage
        return empId;
    }

    public String getName() {  1 usage
        return name;
```



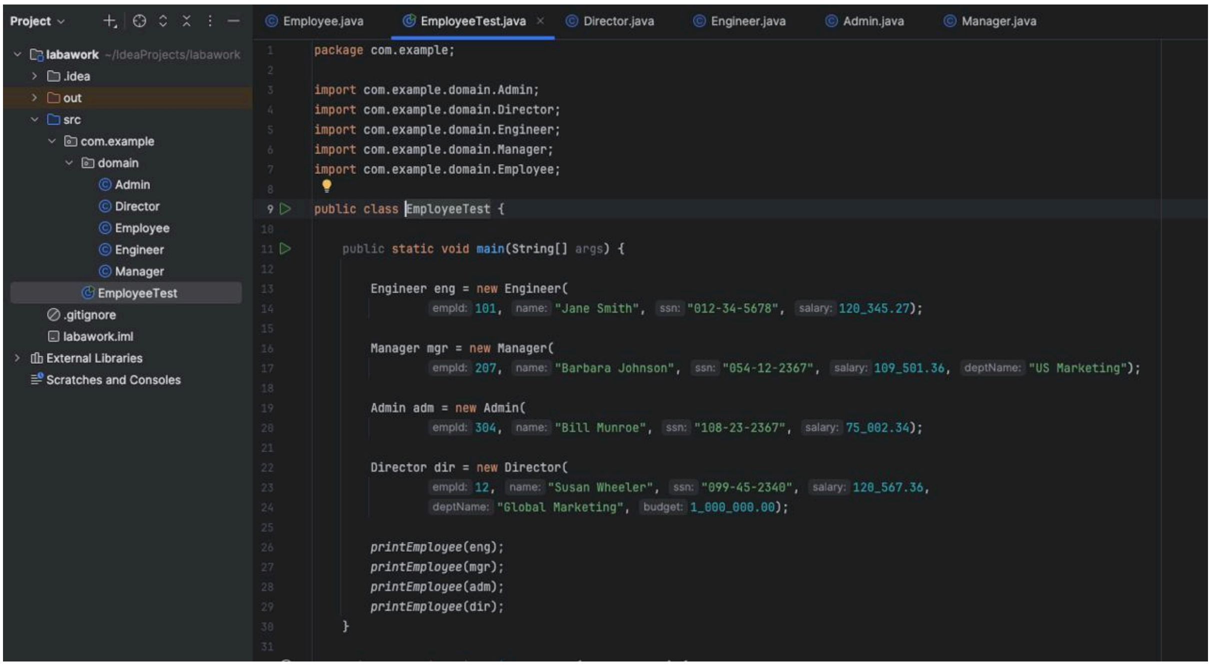
```java
public class Employee {  5 usages  4 inheritors
    public void setName(String name) {  no usages
        this.name = name;
    }

    public void raiseSalary(double increase) {  no usages
        if (increase > 0) {
            salary += increase;
        }
    }

    public int getEmpId() {  1 usage
        return empId;
    }

    public String getName() {  1 usage
        return name;
    }

    public String getSsn() {  1 usage
        return ssn;
    }

    public double getSalary() {  1 usage
        return salary;
    }
}
```



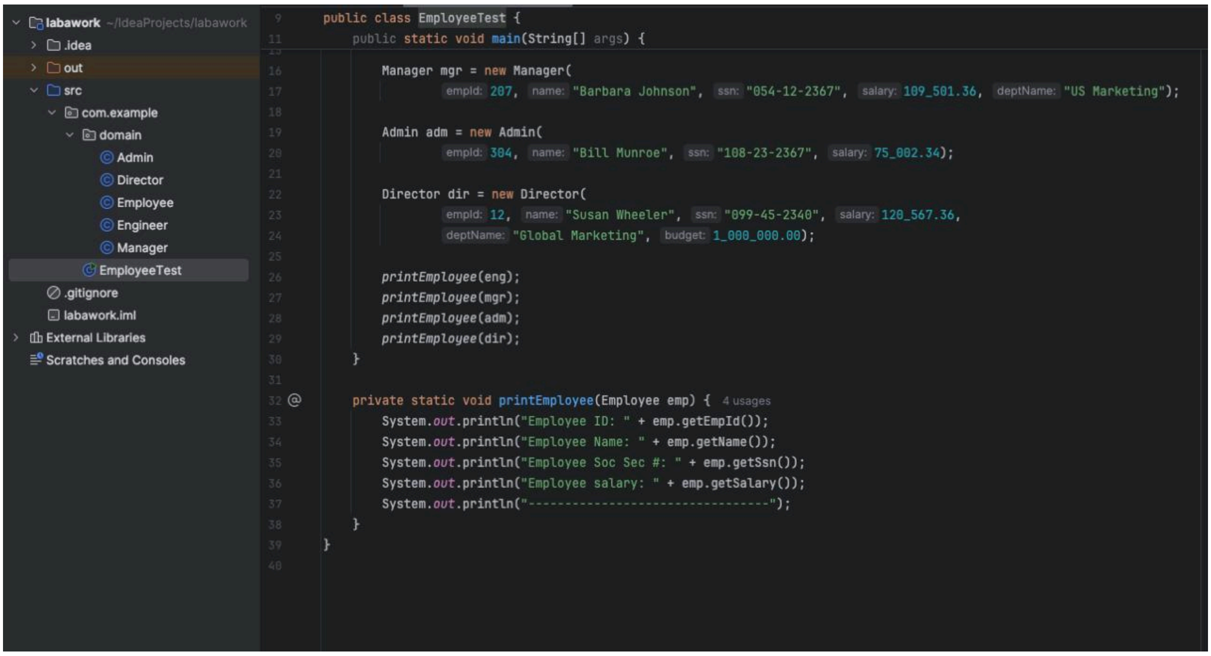
```java
package com.example.domain;

public class Engineer extends Employee {  no usages

    public Engineer(int empId, String name, String ssn, double salary) {  no usages
        super(empId, name, ssn, salary);
    }
}
```



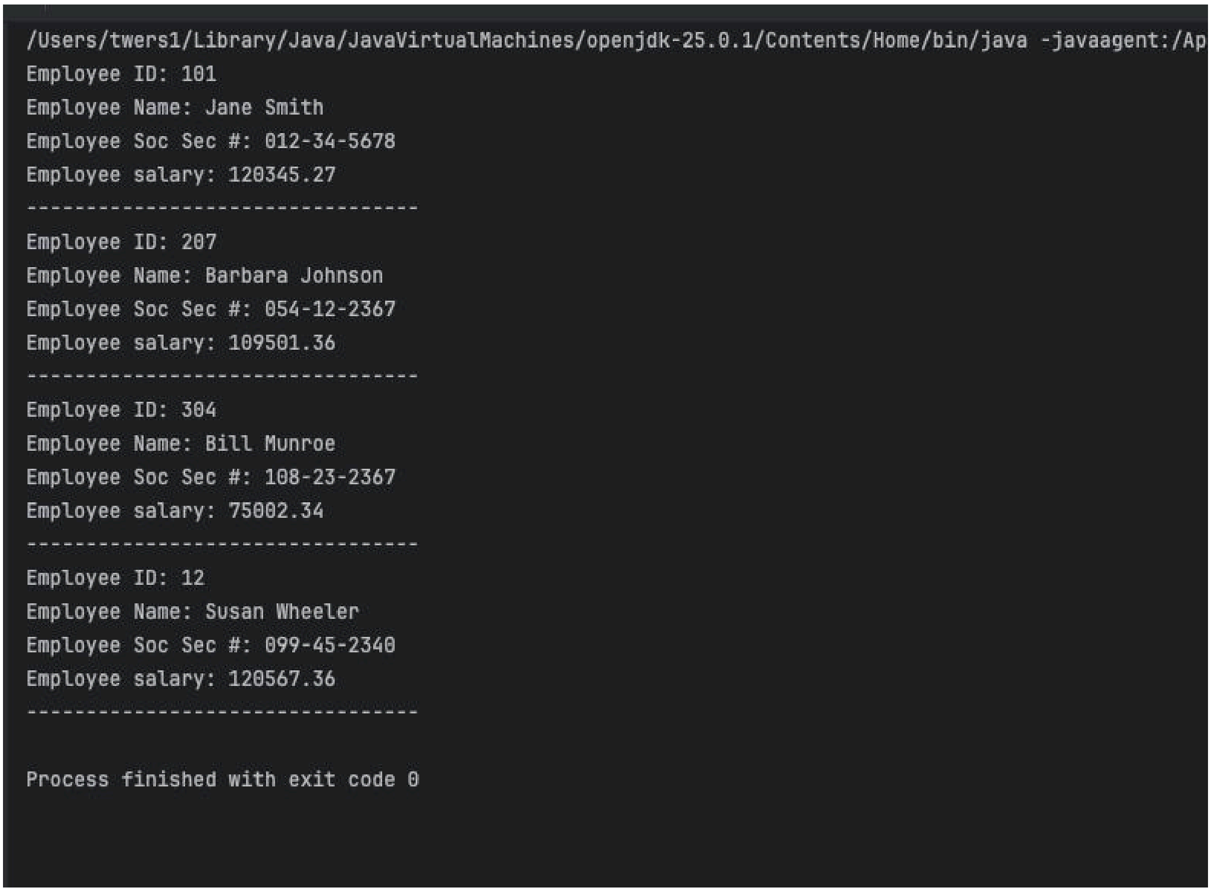
```java
package com.example.domain;

public class Manager extends Employee {  no usages  1 inheritor

    private String deptName;  2 usages

    public Manager(int empId, String name, String ssn, double salary, String deptName) {  no usages
        super(empId, name, ssn, salary);
        this.deptName = deptName;
    }

    public String getDeptName() {  no usages
        return deptName;
    }
}
    ⌘⇧L to Chat, ⌘I to Command
```



```java
package com.example;

import com.example.domain.Admin;
import com.example.domain.Director;
import com.example.domain.Engineer;
import com.example.domain.Manager;
import com.example.domain.Employee;

public class EmployeeTest {

    public static void main(String[] args) {

        Engineer eng = new Engineer(
                empId: 101, name: "Jane Smith", ssn: "012-34-5678", salary: 120_345.27);

        Manager mgr = new Manager(
                empId: 207, name: "Barbara Johnson", ssn: "054-12-2367", salary: 109_501.36, deptName: "US Marketing");

        Admin adm = new Admin(
                empId: 304, name: "Bill Munroe", ssn: "108-23-2367", salary: 75_002.34);

        Director dir = new Director(
                empId: 12, name: "Susan Wheeler", ssn: "099-45-2340", salary: 120_567.36,
                deptName: "Global Marketing", budget: 1_000_000.00);

        printEmployee(eng);
        printEmployee(mgr);
        printEmployee(adm);
        printEmployee(dir);
    }

```



```java
public class EmployeeTest {
    public static void main(String[] args) {

        Manager mgr = new Manager(
                empId: 207, name: "Barbara Johnson", ssn: "054-12-2367", salary: 109_501.36, deptName: "US Marketing");

        Admin adm = new Admin(
                empId: 304, name: "Bill Munroe", ssn: "108-23-2367", salary: 75_002.34);

        Director dir = new Director(
                empId: 12, name: "Susan Wheeler", ssn: "099-45-2340", salary: 120_567.36,
                deptName: "Global Marketing", budget: 1_000_000.00);

        printEmployee(eng);
        printEmployee(mgr);
        printEmployee(adm);
        printEmployee(dir);
    }

    private static void printEmployee(Employee emp) {  4 usages
        System.out.println("Employee ID: " + emp.getEmpId());
        System.out.println("Employee Name: " + emp.getName());
        System.out.println("Employee Soc Sec #: " + emp.getSsn());
        System.out.println("Employee salary: " + emp.getSalary());
        System.out.println("----------------------------------");
    }
}

```



```
/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
```