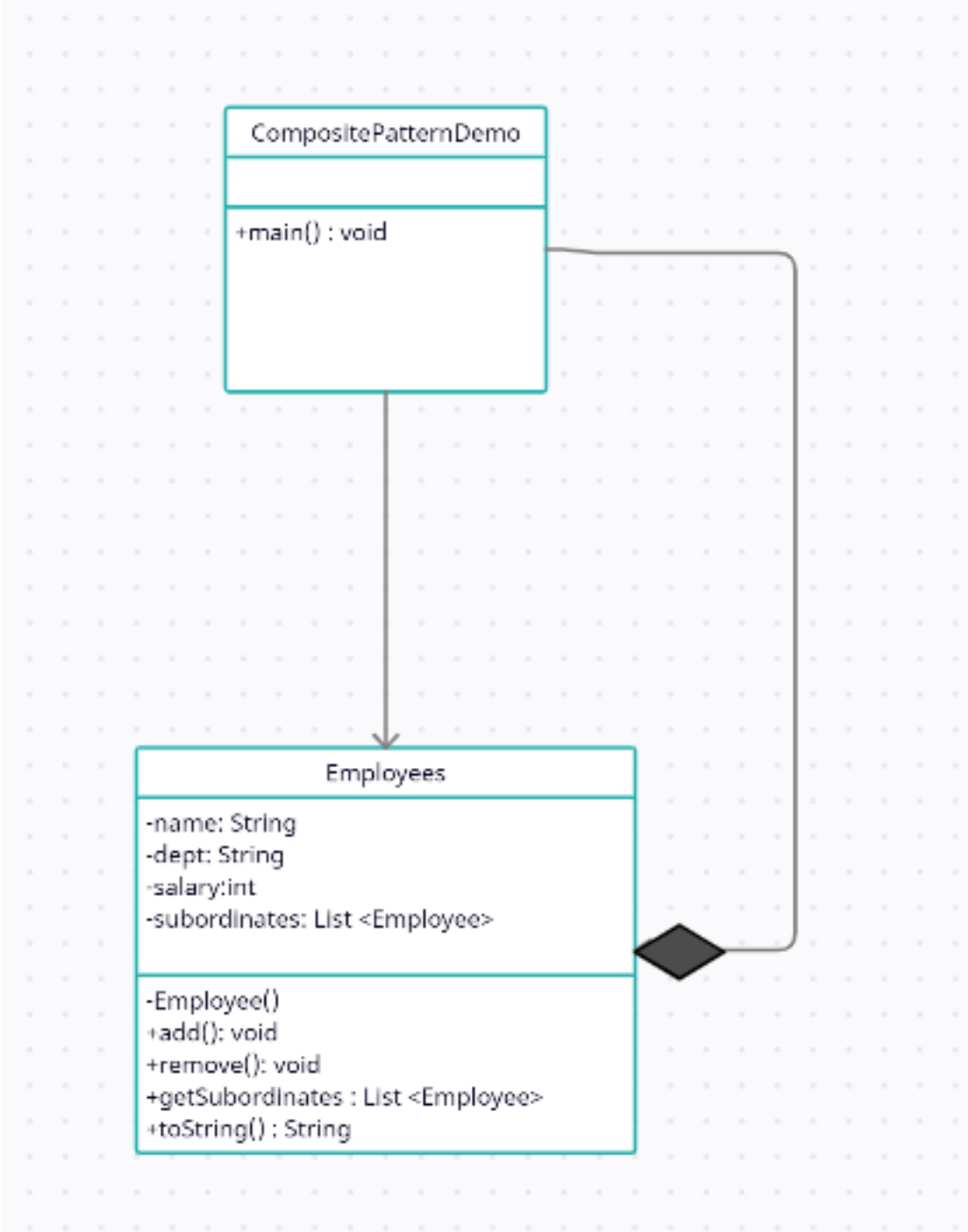
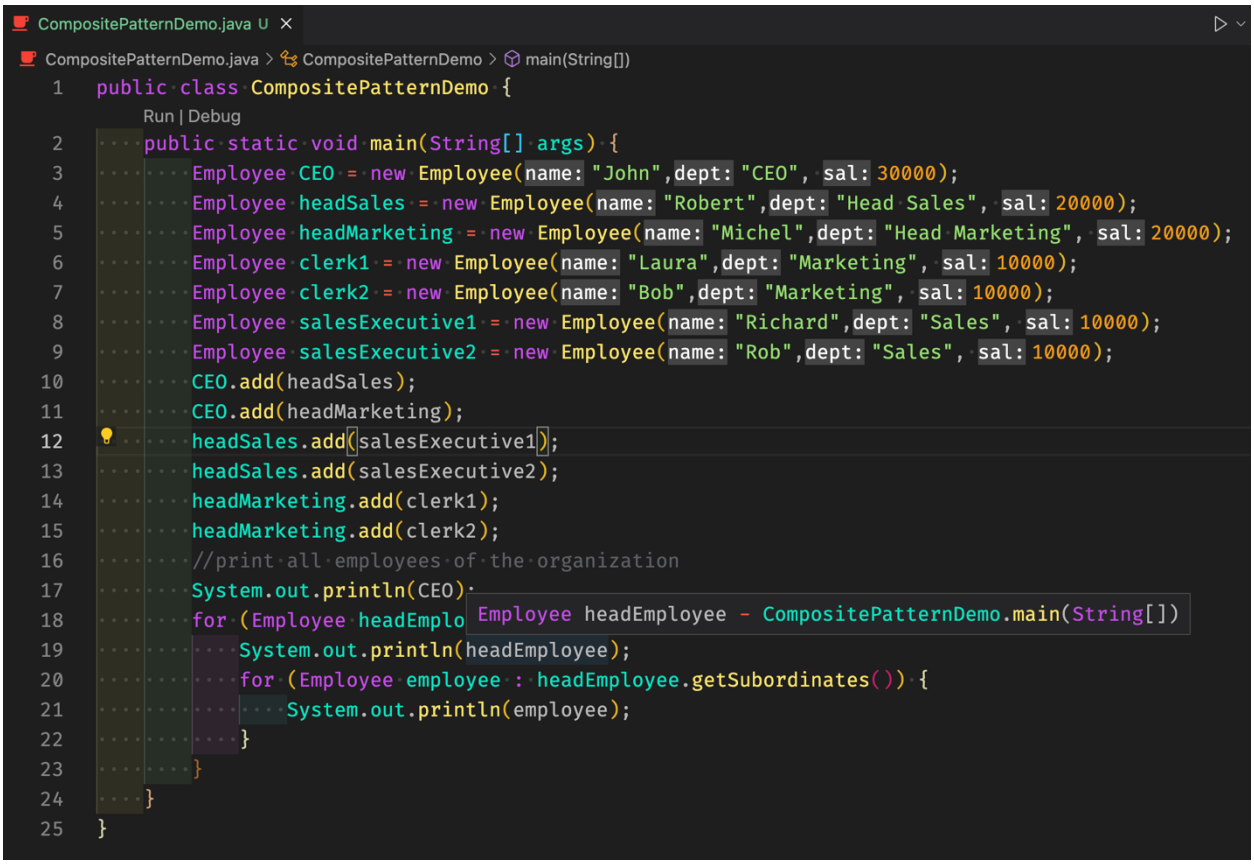

CompositePatternDemo
+main() : void
Employees
-name: String
-dept: String
-salary:int
-subordinates: List <Employee>
-Employee()
+add(): void
+remove(): void
+getSubordinates : List <Employee>
+toString() : String


CompositePatternDemo.java U
CompositePatternDemo.java > CompositePatternDemo > main(String[])
public class CompositePatternDemo {
Run | Debug
public static void main(String[] args) {
Employee CEO = new Employee(name: "John",dept: "CEO", sal: 30000);
Employee headSales = new Employee(name: "Robert",dept: "Head Sales", sal: 20000);
Employee headMarketing = new Employee(name: "Michel",dept: "Head Marketing", sal: 20000);
Employee clerk1 = new Employee(name: "Laura",dept: "Marketing", sal: 10000);
Employee clerk2 = new Employee(name: "Bob",dept: "Marketing", sal: 10000);
Employee salesExecutive1 = new Employee(name: "Richard",dept: "Sales", sal: 10000);
Employee salesExecutive2 = new Employee(name: "Rob",dept: "Sales", sal: 10000);
CEO.add(headSales);
CEO.add(headMarketing);
headSales.add(salesExecutive1);
headSales.add(salesExecutive2);
headMarketing.add(clerk1);
headMarketing.add(clerk2);
//print all employees of the organization
System.out.println(CEO);
for (Employee headEmplo
Employee headEmployee - CompositePatternDemo.main(String[])
System.out.println(headEmployee);
for (Employee employee : headEmployee.getSubordinates()) {
System.out.println(employee);
}
}
}
}

Employee.java U

Employee.java > Employee

```java
import java.util.ArrayList;
import java.util.List;

public class Employee {
    private String name;
    private String dept;
    private int salary;
    private List<Employee> subordinates;

    // constructor
    public Employee(String name, String dept, int sal) {
        this.name = name;
        this.dept = dept;
        this.salary = sal;
        subordinates = new ArrayList<Employee>();
    }

    public void add(Employee e) {
        subordinates.add(e);
    }

    public void remove(Employee e) {
        subordinates.remove(e);
    }

    public List<Employee> getSubordinates() {
        return subordinates;
    }

    public String toString() {
        return ("Employee :[ Name : " + name + ", dept : " + dept + ", salary :" + salary + " ]");
    }
}
```

```
Employee :[ Name : John, dept : CEO, salary :30000 ]
Employee :[ Name : Robert, dept : Head Sales, salary :20000 ]
Employee :[ Name : Richard, dept : Sales, salary :10000 ]
Employee :[ Name : Rob, dept : Sales, salary :10000 ]
Employee :[ Name : Michel, dept : Head Marketing, salary :20000 ]
Employee :[ Name : Laura, dept : Marketing, salary :10000 ]
Employee :[ Name : Bob, dept : Marketing, salary :10000 ]
```