

```

package javaapplication21;

public class CompositePatternDemo {
    public static void main(String[] args) {

        Employee CEO = new Employee("John","CEO", 30000);

        Employee headSales = new Employee("Robert","Head Sales", 20000);

        Employee headMarketing = new Employee("Michel","Head Marketing", 20000);

        Employee clerk1 = new Employee("Laura","Marketing", 10000);
        Employee clerk2 = new Employee("Bob","Marketing", 10000);

        Employee salesExecutive1 = new Employee("Richard","Sales", 10000);
        Employee salesExecutive2 = new Employee("Rob","Sales", 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 headEmployee : CEO.getSubordinates()) {
            System.out.println(headEmployee);

            for (Employee employee : headEmployee.getSubordinates()) {
                System.out.println(employee);
            }
        }
    }
}

```

```
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+" ]");
    }
}
```