

Company and Departments (Composition)

Class: Employee

- Attributes:

- Name : string
- EmployeeID : string

- Methods:

- Work()
- DisplayInfo()

Class: Department

- Attributes:

- Name : string
- Employees : List<Employee>

- Methods:

- AddEmployee(emp : Employee)
- RemoveEmployee(emp : Employee)
- DisplayEmployees()

Class: Company

- Attributes:

- Name : string
- Departments : List<Department> // Composition

- Methods:

- AddDepartment(dep : Department)
- RemoveDepartment(dep : Department)
- DisplayDepartments()

Relationship:

- Composition: Company contains Departments → Departments cannot exist without Company
- Composition: Department contains Employees → Employees cannot exist without Department