

# **University with Faculties and Departments (Composition and Aggregation)**

## **Class: Faculty**

### **- Attributes:**

- Name : string**
- FacultyID : string**

### **- Methods:**

- AssignToDepartment(department : Department)**
- DisplayInfo()**

## **Class: Department**

### **- Attributes:**

- Name : string**
- FacultyList : List<Faculty>**

### **- Methods:**

- AddFaculty(faculty : Faculty)**
- RemoveFaculty(faculty : Faculty)**

## **Class: University**

### **- Attributes:**

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

### **- Methods:**

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

## **Relationships:**

- Composition: University contains Departments (Departments cannot exist without University)**
- Aggregation: Department contains Faculties (Faculty can exist independently)**