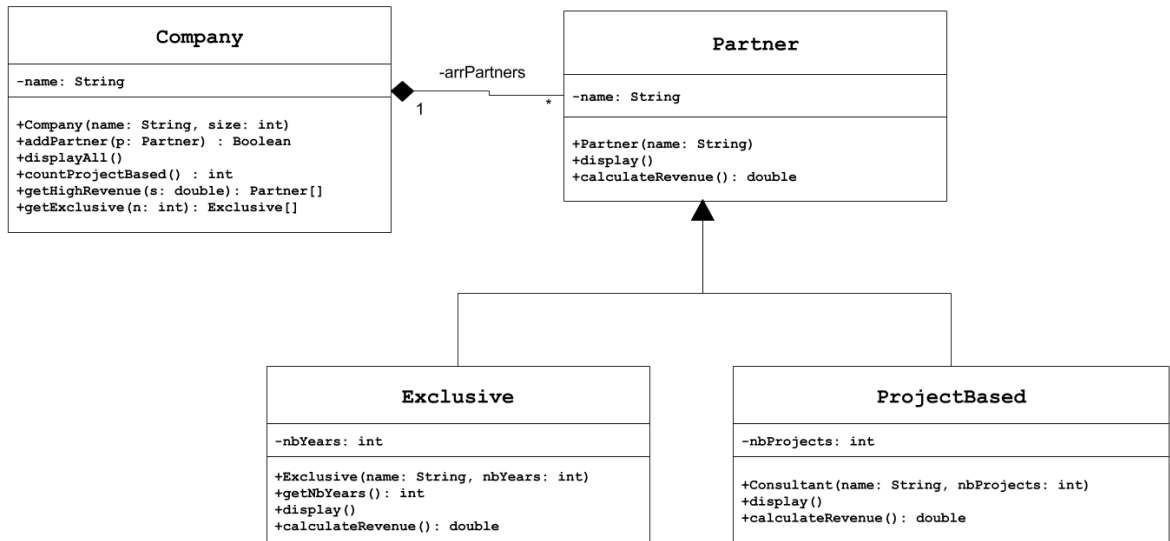


**King Saud University**  
**College of Computer and Information Sciences**  
**Department of Computer Science**  
**CSC113 – Computer Programming II – Polymorphism tutorial – Spring 2016**



**Partner** class:

- Attributes:
  - **name**: the name of the employee.
- Methods:
  - **Partner (name: String)**: constructor
  - **display()**: this method display all the attributes of the Partner.
  - **calculateRevenue()**: this method calculates and return the Salary of the partner as the following:
    - **Partner**: 100,000
    - **Exclusive**: nbYears \* 10,000 + 300,000
    - **ProjectBased**: nbProjects \* 200,000

**Exclusive** class:

- Attributes:

**King Saud University**  
**College of Computer and Information Sciences**  
**Department of Computer Science**  
**CSC113 – Computer Programming II – Polymorphism tutorial – Spring 2016**

- ***nbYears***: number of years of partnership.
- Methods:
  - ***Exclusive (name: String, nbYears: int)***: constructor
  - ***display()***: this method display all the attributes.
  - ***getNbYears()***: this method returns nbYears value.

***ProjectBased*** class:

- Attributes:
  - ***nbProjects***: number of projects.
- Methods:
  - ***ProjectBased(name: String, , nbProjects: int)***: constructor
  - ***display()***: this method display all the attributes.

***Company*** class:

- Attributes:
  - ***name***: the name of the company.
- Methods:
  - ***Company (name: String, size: int)***: constructor
  - ***addEmployee(Employee e)***: this method adds an employee to the company. An employee can be of type Employee, type Manager or type Consultant.
  - ***displayAll ()***: Display all employees and their attributes along with their salary.
  - ***countProjectBased()***: this method returns the number of all ProjectBased Partners in the company.
  - ***getHighRevenue(double s)***: this method returns an array all Partners with revenue greater than s.

**King Saud University**  
**College of Computer and Information Sciences**  
**Department of Computer Science**  
**CSC113 – Computer Programming II – Polymorphism tutorial – Spring 2016**

- *getExclusive(int n)*: returns an array of all Exclusive partners with nbYears greater than n.

Write a class with a main method doing the following:

- Create the 3 objects as follows:
  - partner: name = “stc”
  - exclusive: name = “mobily”, number of years: 10
  - projectbased: name = “sale”, number of project: 19
- Create the Company ”Elm”.
- Add the previously crated objects in the company.
- Display all the partners.
- Display the number of project based partners in the company.
- Display all partners with revenue greater than SAR1,000,000.
- Display all Exclusive partners with number of years greater than 10.