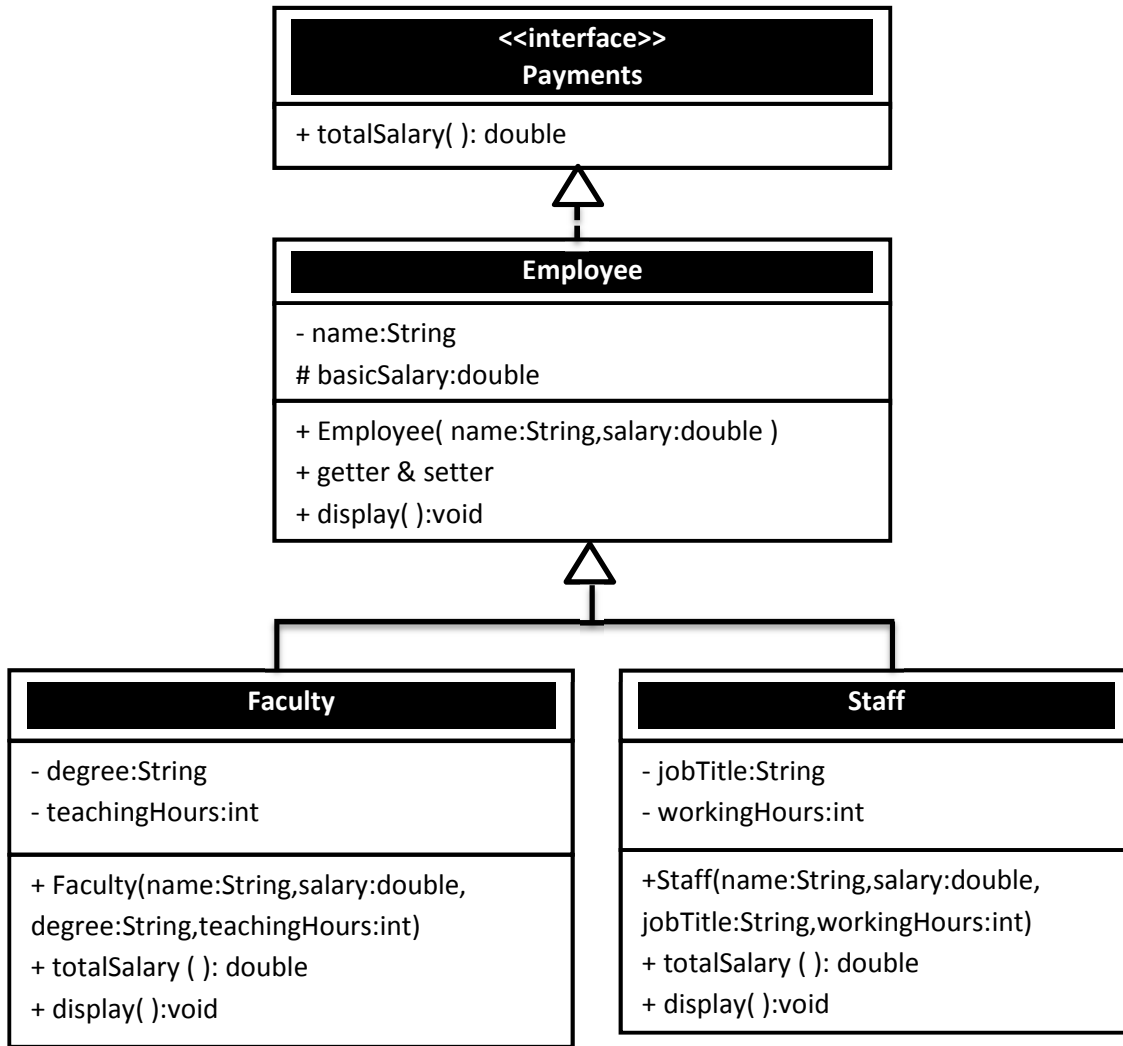


**King Saud University  
College of Computer and Information Sciences  
Lab 6 Interface & Polymorphism**



**Employee**

*Employee:* Parameterized constructor.

*getter & setter:* Create the get and set method to each attribute.

*display:* Displays Employee ID and Name in the following format:  
Name: FL – Basic Salary: 1000 SR

**Faculty**

*Faculty:* Parameterized constructor.

*getter & setter:* Create the get and set method to each attribute.

*display:* Shows the Faculty information in the following format:  
Name: FL – Degree: PhD

*totalSalary:* Calculate salary based on the following formula :  
Salary= basicSalary + teachingHours \* 100

**Staff**

*Staff:* Parameterized constructor.

*getter & setter:* Create the get and set method to each attribute.

*display:* Shows the Staff information in the following format:  
Name: FL – JobTitle: Registrar

*totalSalary:* Calculate salary based on the following formula :  
Salary= basicSalary  
Unless workingHours > 8, Then  
Salary=basicSalary+ (basicSalary \*25 /100 )

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**Lab6 Class:**

Once you are done implementing the classes, you need to test your work using the class Lab6 with main method to do the following:

1. Create an array of class **Employee** of size 4.
2. Fill the array with mixed instances of class **Faculty** class **Staff** with proper values for the attributes.
3. Display the information only for Faculty instances using display() method.
4. Display the information only for Staff instances with working hours > 8 using display() method.
5. Show the name, basic salary and total salary for all instances.

Run example:

```
Name: Majed - Degree: PhD
Name: Nasser - Degree: Masters
-----
Name: Yasser - JobTitle: Registrar
-----
Name: Majed - Basic Salary: 1000 SR
Total Salary:2200 SR

Name: Fahad - Basic Salary: 2000 SR
Total Salary:2000 SR

Name: Nasser - Basic Salary: 3000 SR
Total Salary:4000 SR

Name: Yasser - Basic Salary: 4000 SR
Total Salary:5000 SR
```

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**Helpful tips and hints:**

- To auto generate Getters and setters go to Source -> Generate Getter and Setter  
Or just type set and press Ctrl + Space for the variable you just added.
- To invoke the Auto Formatter for your code : Ctrl + Shift + F
- For auto complete: Ctrl + space
- For System.out.println(): syso + Ctrl + space
- To Undo: Ctrl + z
- To Copy: Ctrl + c
- To Paste: Ctrl + v
- To Save: Ctrl + s
- - means private, + public, # protected.