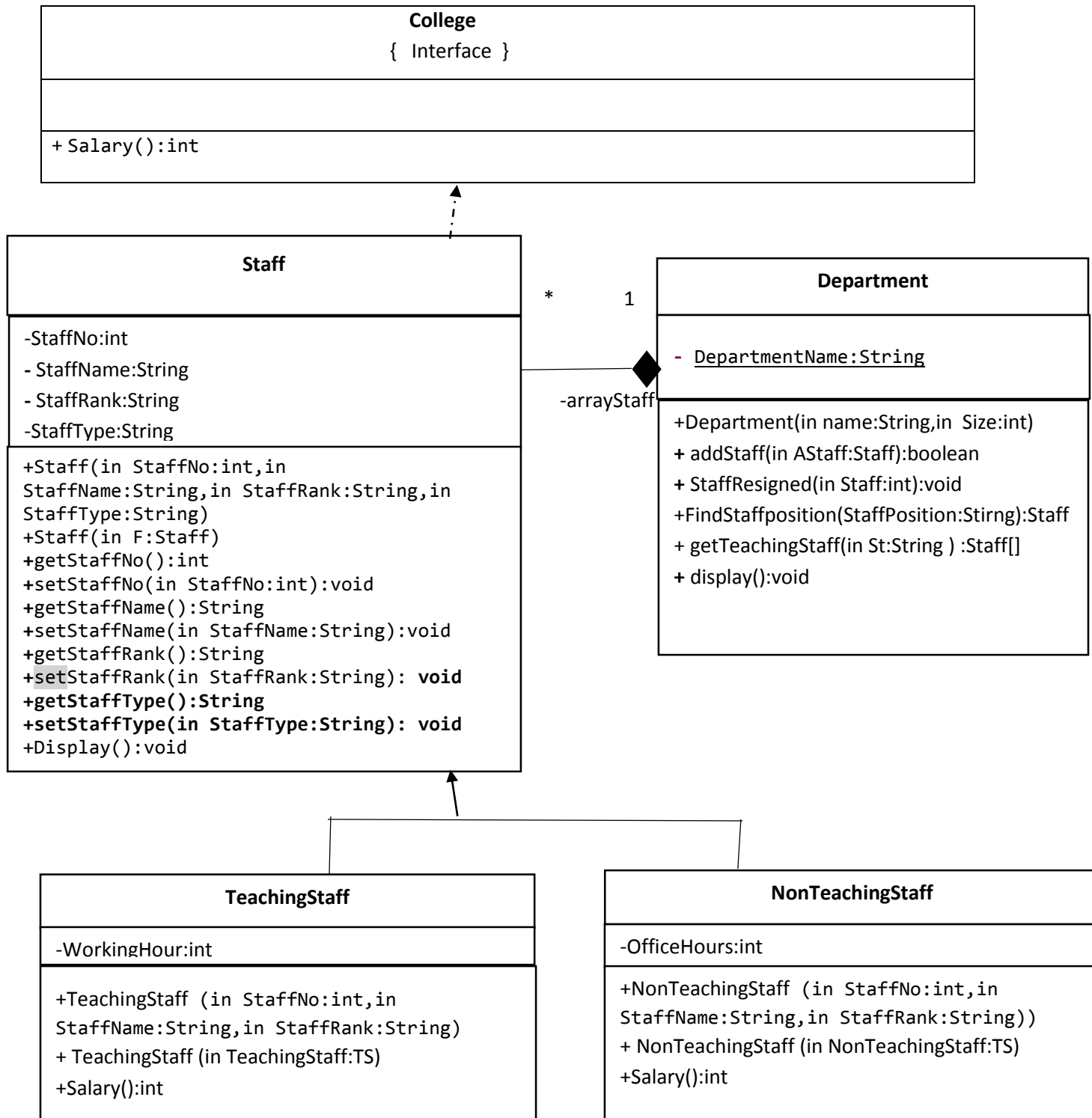




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Tutorial 6: Abstract Classes and Interface



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College Interface

Methods:

- Salary():int

Staff Class:

Attributes StaffNo:int, StaffName:String, StaffPosition:String

- Methods: Get and set Methods for all the attributes

Department Class:

Attributes: Department name and the Array of Staff

Methods:

Constructor: Constructor with two parameter name and the size for the array

- **AddStaff():** Add Staff will check for the Teaching and Non-Teaching staff and adds according to the type of the Staff.
 - Example: If the StaffType is Teaching than the Staff will be added to the TeachingStaff class object and if it is Non-Teaching it will be added to NonTeachingStaff class object
- **StaffResigned(in Staff:int):** It will search the Staff with given Number and return the index.
- **FindStaffposition(StaffPosition:Stirng):** It will check with the position of the staff and returns his details
- **getTeachingStaff(in SP:String) :** if the staff position is teaching it will return the array of all Teaching staff.
- **Display():** The display method will display all the information of the Staff

Teaching Staff Classes

Attribute: WorkingHours

Methods:

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Salary():

Rank	Salary
Lecturer	5000
Assistant Professor	8500
Associate Professor	12000
Professor	20000

NonTeachingstaff Classes

Attribute: Office Hours

Methods:

Salary(): return the fixed salary of 5000

QUESTION: Translate into Java code the Interface CollegeInterfaces and classes Staff, Department, TeachingStaff and NonTeachingStaff.