Consider the scenario illustrated below:

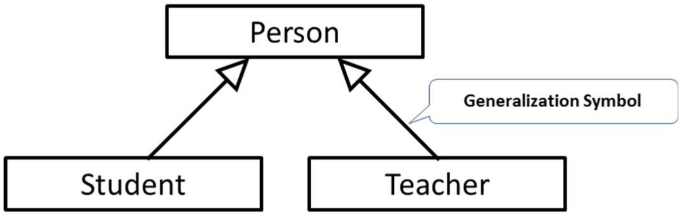

Figure: **IsA** Relationship

Now, write JAVA codes to perform the following tasks:

1. Implement the class **Person**which should contain following members:

MEMBERS	**DESCRIPTION**
name	string
email	string
Person()	Default Constructor

void showPerson()	Should print a *personobject*in following format:
	`Printing Person--------`
	`Name: James Bond`
	`Email: example@aiub.edu`
	`-----------------------`

2. Implement the class **Student** which should contain following members:

MEMBERS	**DESCRIPTION**
studentId	string
admissionDate	string
Student( )	Default Constructor
void setStudent(studentId, admissionDate, name, email)	Sets the attributes of a *student*

void showStudent( )	Should print a *student object* in following format:
	`Printing Student----------`
	`ID: 00-00000-0`
	`Admission Date: 13/01/2015`
	`Name: James Bond`
	`Email: bond@aiub.edu`
	`--------------------------`

3. Implement the class **Teacher** which should contain following members:

MEMBERS	**DESCRIPTION**
employeeId	string
joiningDate	string
Teacher ( )	Default Constructor
void setTeacher(employeeId, joiningDate, name, email)	Sets the attributes of a *teacher*

void showTeacher( )	Should print a *teacher object* in following format:
	`Printing Teacher----------`
	`ID: 0000-0000-0`
	`Joining Date: 13/01/2015`
	`Name: Karl Ei`
	`Email: karl@aiub.edu`
	`--------------------------`

4. Maintain proper **Encapsulation** for all the classes mentioned above.
5. Add a main function to the program, declare some objects of **Student** & **Teacher** class and test all the methods of those objects.