Part II Programming with Jena

How to write a Java program to execute rules and SPARQL queries on an OWL ontology

1. Open Eclipse
2. Download from Moodle all the necessary resources « Usfull files for the lab »
3. Create a Java Project
4. Create a package **itsudparis.tools** in the **src** folder and add the files **FileTool.java** and **JenaEngine.java**
5. Create a package **itsudparis.application** and add **Main.java**
6. Create a folder **data** and add the following files : **owlrules.txt**, **rules.txt**, **query.txt** and **family.owl** (your own ontology created during the previous lab)
7. On the **Projet/Properties/Java Build Path** menu**,** click on **Add External JARS**. Add all *the Jena libraries.*
8. Execute the **Main** class

Exercise

1. To start, you can test some rules and queries of the previous lab
2. Built an application in the package itsudparis.application that:
    a. Ask for the name of a person
    b. Display all the parents, brothers or sisters if exist.
    c. If this person is married, show the name and the age of his/her spouse
    d. Return to step a to enter a new name