Lab3 : JADE communication

Exercise 1 : (Point-to-point communication)

Let there be two agents (agent1, agent2). Give the code of each agent in JADE to carry out their following behaviour:

- Agent2 sends a "Hello" message to Agent1
- Agent 1 responds with a "Thank you" message
- Each agent displays the message received from the other agent.

Exercise 2 :

a) Create the same receiver agent in main container.

b) Create a simple container and the same sender agent in it (by program).

Exercise 3 : (Message filtering)

We can filter the messages received according to the communicative act (performative). We want to receive only INFORM type messages and then PROPOSE type messages.

Exercise 4 : (Broadcast communication)

Realise Topic-based communication between a sender agent that creates a topic « JADE » and a set of receivers agents that register to that topc.

Exercise 4 : Serialization

Consider a product defined by a name and a price. Write the code of two agents (Seller and Buyer) who communicate as follows: the Seller agent creates a new product and sends it to the Buyer agent. The Buyer agent displays the product received.