**Creating Agent Dialogues by Vasilisa Lukashevich**

*The task:*

Create an agent dialogue, using KQML and KIF, between two agents (named Alice and Bob).

Alice is an agent designed to procure stock and Bob is an agent that controls the stock levels for a warehouse. This dialogue should see Alice asking Bob about the available stock of 50 inch televisions, and also querying the number of HDMI slots the televisions have.

Add your completed answers to your e-Portfolio.

*The answer:*

A simplified example to illustrate the structure of the dialogue using KQML:

1. Alice initiates the conversation by sending an ask message to Bob, requesting information about the stock levels of 50 inch televisions and the number of HDMI slots they have.

**Alice (Agent):**

(send

:receiver bob

:content

(ask

:sender alice

:receiver bob

:content

(and

(stock-levels :item "50 inch television")

(tv-specs :item "50 inch television" :attribute "HDMI slots"))))

1. Bob receives the message

**Bob (Agent):**

(receive

:sender alice

:content

(ask

:sender alice

:receiver bob

:content

(and

(stock-levels :item "50 inch television")

(tv-specs :item "50 inch television" :attribute "HDMI slots"))))

1. Bob receives the message and responds by sending a tell message back to Alice, providing the requested information.

**Alice (Agent):**

(receive

:sender bob

:content

(tell

:sender bob

:receiver alice

:content

(and

(stock-levels :item "50 inch television" :quantity 10)

(tv-specs :item "50 inch television" :attribute "HDMI slots" :value 4)))))

The dialogue assumes that both agents have previous knowledge about the stock levels and TV specifications. The actual implementation of the agents and their knowledge bases would require additional code and integration.