Programming Assignment-5

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**For Part 1:**

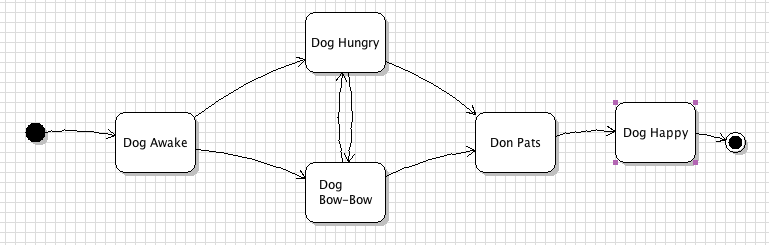
The First part of the assignment asks us to write code base to write a violet state machine xml parser that will generate a prolog file after reading the state.voilet file. The State machine being drawn in violet is represented in form of an xml with the details of the nodes and the transitions in the xml. We will parse the xml file and extract the nodes and the arrows from it. We then write a .pl files out of the data that has been extracted from the xml into tables of the State machine Meta model. With the nodes being defined in the first table and transitions being defined in the next.

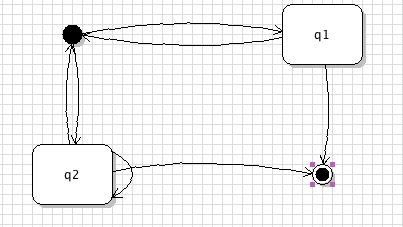
The prolog file generated after reading the File should be representing the state machine present in the xml file.

**For Part 2:**

This part uses the output of the previous part. From the code written for part 1 we get the prolog files needed for us to be able to perform a model to model transition on the data. Once the new Model prolog file has been generated we run constraints on it to make sure that the FSM being defined in the diagram represents a correct FSM.

New FSM’s defined;





Running Instructions:

*$ sh ./run.script*

This script will compile the code for the above three sections individually, and then call the test function for them. The output will indicate if the tests have run successfully or not.