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AYDIN ADNAN MENDERES UNIVERSITY

CSE 419 ARTIFICIAL INTELLIGENCE

ASSIGNMENT#3

Due Date: 08.06.2022 23:59

Consider “Who is the murderer?” case explained in [1]. Implement the solution with the help AIMA code by forward chaining [2] and backward chaining [3] in first order logic. Test each fact and rule stored in the knowledge base similar to [4]. After applying forward chaining [5] and backward chaining [6] algorithms to your knowledge base, test the output of your solution. Log each step of the solution procedure as explained in the lecture.

[1] https://xmonader.github.io/prolog/2018/12/21/solving-murder-prolog.html
[2]https://github.com/aimacode/aima-java/blob/AIMA3e/aima-core/src/main/java/aima/core/logic/fol/inference/FOLFCAsk.java
[3]https://github.com/aimacode/aima-java/blob/AIMA3e/aima-core/src/main/java/aima/core/logic/fol/inference/FOLBCAsk.java
[4]https://github.com/aimacode/aima-java/blob/AIMA3e/aima-core/src/test/java/aima/test/core/unit/logic/fol/kb/FOLKnowledgeBaseTest.java
[5]https://github.com/aimacode/aima-java/blob/AIMA3e/aima-core/src/test/java/aima/test/core/unit/logic/fol/inference/FOLFCAskTest.java
[6]https://github.com/aimacode/aima-java/blob/AIMA3e/aima-core/src/test/java/aima/test/core/unit/logic/fol/inference/FOLBCAskTest.java