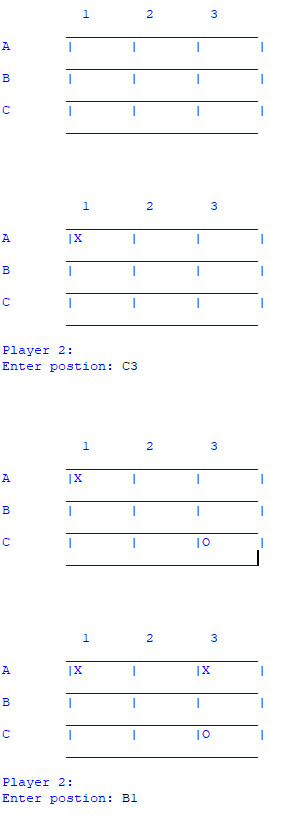
**ARTIFICIAL INTELLIGENCE LAB PROGRAMS**

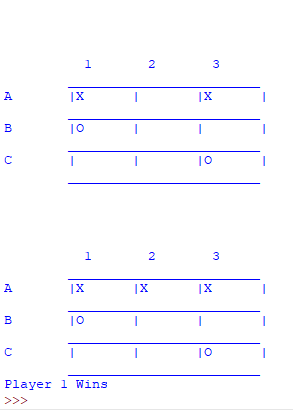
**OUTPUT**

JESTON NEIL GONSALVES

1BM17CS135

1. **Implementation of Tic-Tac-Toe game**

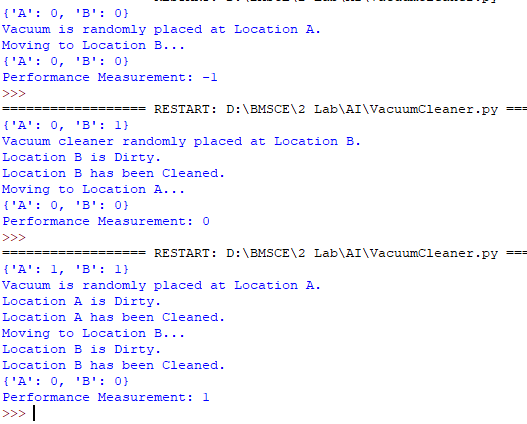




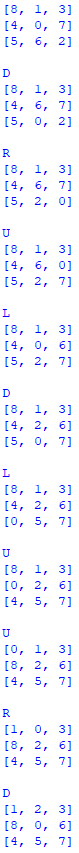
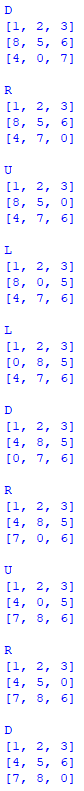
1. **Solving 8 puzzle problem**



1. **Implementation of vacuum cleaner agent**



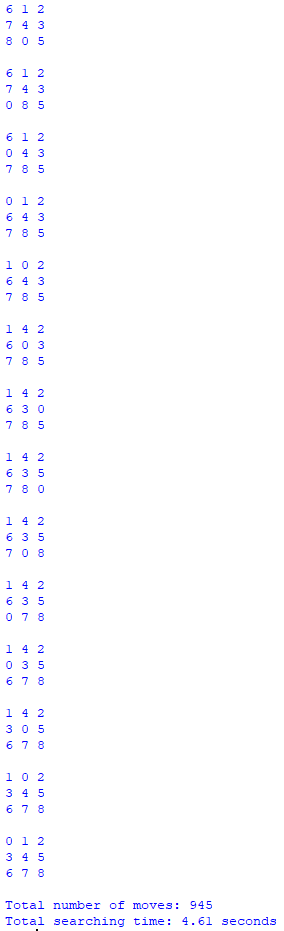
1. **Implementation of A\* search algorithm**

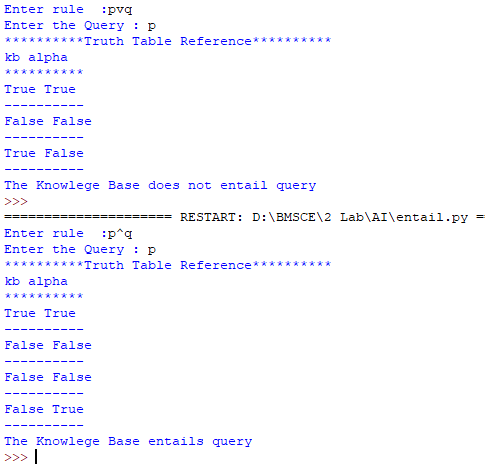
1. **Implementing iterative deepening search to solve 8 puzzle problem**

Screenshots not taken for middle part

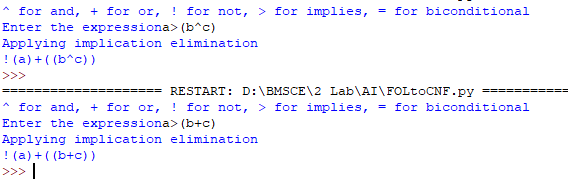
Beginning Ending

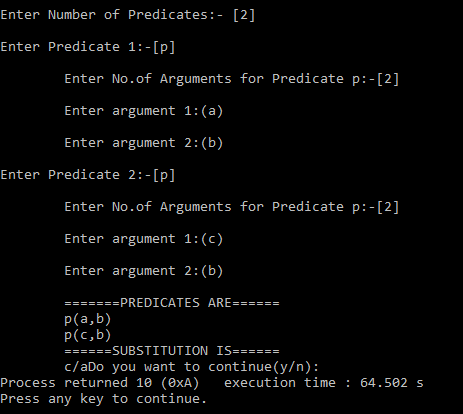
1. **Create a knowledge base using prepositional logic and show that the given query entails the knowledge base or not**



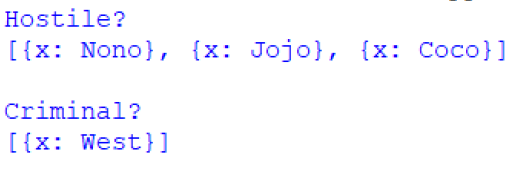
1. **Convert the given first order logic statement into conjunctive normal form (CNF)**



1. **Implementation of unification in first order logic**



1. **Create a knowledge base consisting of first order logic statements and prove the query using forward reasoning**



1. **Demonstrate decision tree learning for a given set of**

**training examples and test data**

