Data Structures and Algorithms - LAB 13 - 17.12.2022

Evaluation

Observation – 5 marks

Execution – 15 marks

Spot – 5 marks

Observation

1. Compare naïve and KMP algorithm.
2. Discuss its time complexity
3. How many fundamental solutions are there for the eight queen puzzle?
4. Which ordered board is the highest enumerated board till now?
5. Is it possible to have no four queens in a straight line as the part of one of the solution to the eight queen puzzle?

Execution

6. Design, develop, and write a program to solve string matching problem using naïve approach and the KMP algorithm. Compare their performances.
7. Implement 8 queens problem using backtracking.