UCS1504 - Artificial Intelligence Lab

Department of CSE, SSN College of Engineering

4. Local Search Algorithm

13.09.2022

1. Solve 8-queens problem. Place 8 queens in a chessboard so that no queen is under attack from any other queen. One such "safe" configuration of 8 queens is shown below.

	1	2	3	4	5	6	7	8
1				Q				
2						Q		
3								Q
4		Q						
5							Q	
6	Q							
7			Q					
8					Q			

Implement Hill climbing algorithm to find any one safe configuration.

Content to be written in Observation for output verification:

i. Solve the problem manually at the back side of your AI class Note

ii. Date

iii. Ex. No

iv. Title

- v. Aim v. Data structure used (with justification)
- vi. Logic applied or Algorithm (short description)
- vii. Sample input and output