***Exp\_4 : N Queen’s Problem***

***Title :*** Implementing N Queen Problem with Heuristic function ( Informed Search ).

***Theory :***

The N-queen problem: Place N chess queens on an N x N chess board, such that none of the queens can hit each other.

The N-queen problem is a classical Prolog problem, often used to illustrate a generate and test solution strategy.

The solution here is equally classical : It relies on some pre-analysis of the problem and handy representation.

Since a queen can hit horizontally there can at most be one queen in each row.

So to place N queens on an N x N board there must be exactly one queen in each row.

So in each row there is exactly one queen which is placed in some column. So we can represent ways to place queens in rows by listing which column that carries a queen for each row.