***Superior University***

**PAI Lab task 04**

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Program:

**Artificial Intelligence**

Submitted to:

**Sir Rasikh**

**N-Queen Problem**

**Summary:**

This code solves the N-Queens problem using backtracking. It tries to place queens one row at a time, ensuring no two queens attack each other by checking columns and diagonals. The placing\_safe function verifies if a position is safe, and solution\_Nqueen recursively places queens. If a valid arrangement is found, it prints the board; otherwise, it reports no solution.

**Output:**

 