



A.Y. 2022-2023

Subject: Artificial Intelligence

SAP ID: 60004220253 – Devansh Mehta

Experiment No. 07

Aim: To implement a game using AI.

Output:

```
nqueens(4, Queens).
Queens = [2, 4, 1, 3]
Queens = [3, 1, 4, 2]
false

nqueens(8, Queens).
Queens = [1, 5, 8, 6, 3, 7, 2, 4]
Queens = [1, 6, 8, 3, 7, 4, 2, 5]
Queens = [1, 7, 4, 6, 8, 2, 5, 3]
Next 10 100 1,000 Stop

nqueens(12, Queens).
Queens = [1, 3, 5, 8, 10, 12, 6, 11, 2, 7, 9, 4]
Queens = [1, 3, 5, 10, 8, 11, 2, 12, 6, 9, 7, 4]
Queens = [1, 3, 5, 10, 8, 11, 2, 12, 7, 9, 4, 6]

?- nqueens(12, Queens).
```