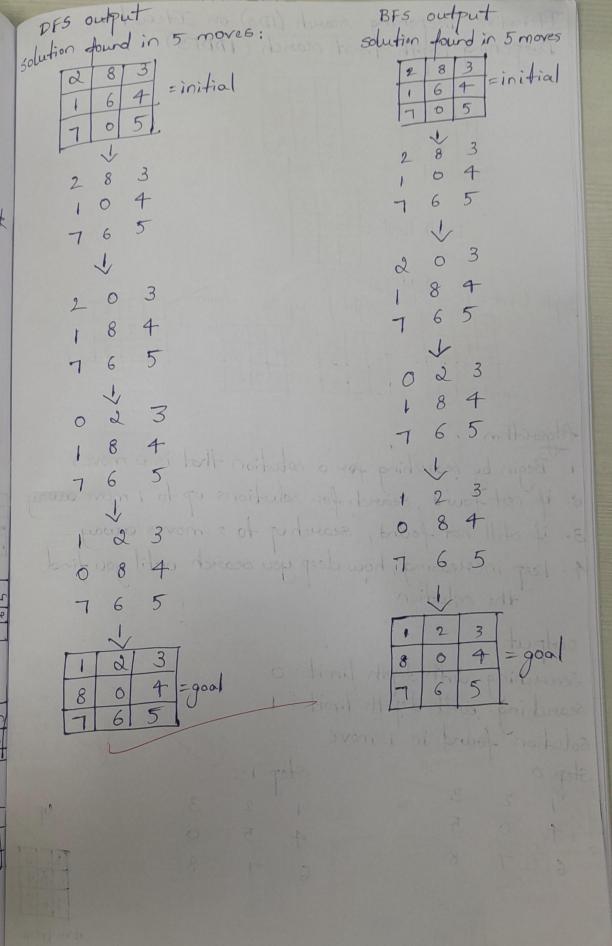
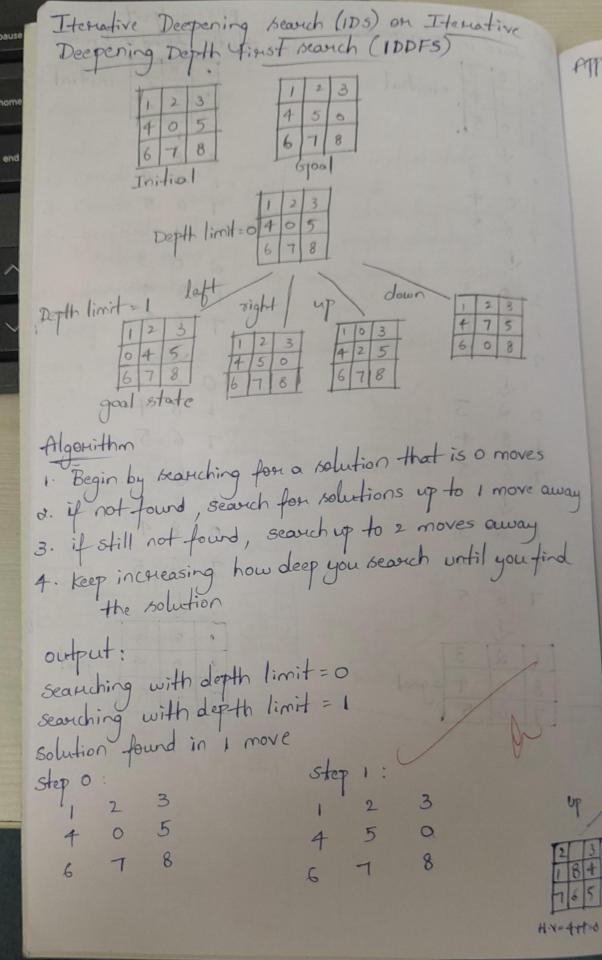


Possible when a finds empty -> stops when goal is found Solution Algorithm using DFS Coreate a stack and push the initial state 1. start create a visited list to track 4. generate all possible next states by 5. when totack find stops when goal it is 6. stops when stack finds empty using DFS solve 8 Puzzle without heuristic approach



## Solution found in 5 moves: (2, 8, 3)(1, 6, 4)(7, 0, 5)(2, 8, 3)(1, 0, 4)(7, 6, 5)(2, 0, 3)(1, 8, 4)(7, 6, 5)(0, 2, 3)(1, 8, 4)(7, 6, 5)(1, 2, 3)(0, 8, 4)(7, 6, 5)(1, 2, 3)(8, 0, 4)(7, 6, 5)

## THRISHA D 1BM24CS426



```
Searching with depth limit = 0
Searching with depth limit = 1
Solution found in 1 moves!
Step 0:
1 2 3
4 0 5
6 7 8
```

## Step 1: 1 2 3

4 5 0

6 7 8

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