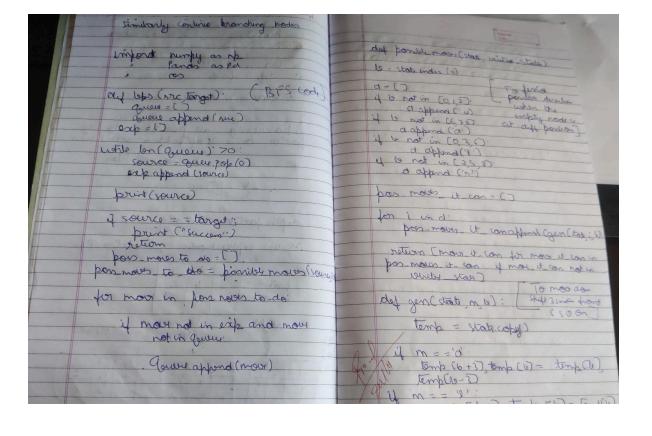
8 Puzzle problem uring BFS Complexity - O(bad) where In the problem, youar will have d-depth factor N+1 tiles, where N=8,15 cts hoomine - 3120 It N = 8 Squar will have 9 tils In the problem initial state will be given Btranshing all possible may by factor to = empty the at each forth no of was tiles Salud by moving the tip are by one compty space & there achieve goal = 24 53 depth factor initially o Rules: As we explore hodes depth factor Tes - Emply can only mover in 4 divis Can't more diagonally & only 3 posible & ness 2 8 1 Step at a time right lup down Tiles at 0 - no of Pombinar " at X - " 6 at H -X O



```
return temp
initial_state = [1, 2, 3, 4, 5, 6, 7, 8, -1]
target_state = [1, 2, 3, 4, 5, 6, 7, 8, -1]
bfs(initial_state, target_state)

1 2 3
4 5 6
7 8
Success
```