Lab2 – 8-Puzzle using BFS   Output

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Please enter number from 0-8, no number should be repeated or be out of this range
Enter the 1 number: 1
Enter the 2 number: 2
Enter the 3 number: 3
Enter the 4 number: 0
Enter the 5 number: 4
Enter the 6 number: 5
Enter the 7 number: 6
Enter the 8 number: 7
Enter the 9 number: 8
The puzzle is solvable, generating path
Exploring Nodes
Goal_reached
printing final solution
Move : None
Result :
[[1. 2. 3.]
 [0. 4. 5.]
 [6. 7. 8.]]     node number:0
Move : right
Result :
[[1. 2. 3.]
 [4. 0. 5.]
 [6. 7. 8.]]     node number:3
Move : right
Result :
[[1. 2. 3.]
 [4. 5. 0.]
 [6. 7. 8.]]     node number:11
Move : down
Result :
[[1. 2. 3.]
 [4. 5. 8.]
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  [4. 5. 0.]
  [6. 7. 8.]]     node number:11
Move : down
Result :
[[1. 2. 3.]
 [4. 5. 8.]
 [6. 7. 0.]]     node number:24
Move : left
Result :
[[1. 2. 3.]
 [4. 5. 8.]
 [6. 0. 7.]]     node number:48
Move : left
Result :
[[1. 2. 3.]
 [4. 5. 8.]
 [0. 6. 7.]]     node number:88
Move : up
Result :
[[1. 2. 3.]
 [0. 5. 8.]
 [4. 6. 7.]]     node number:157
Move : right
Result :
[[1. 2. 3.]
 [5. 0. 8.]
 [4. 6. 7.]]     node number:278
Move : down
Result :
[[1. 2. 3.]
 [5. 6. 8.]
 [4. 0. 7.]]     node number:467
Move : right
Result :
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 [5. 6. 8.]
 [4. 0. 7.]]      node number:467
Move : right
Result :
[[1. 2. 3.]
 [5. 6. 8.]
 [4. 7. 0.]]      node number:780
Move : up
Result :
[[1. 2. 3.]
 [5. 6. 0.]
 [4. 7. 8.]]      node number:1267
Move : left
Result :
[[1. 2. 3.]
 [5. 0. 6.]
 [4. 7. 8.]]      node number:2070
Move : left
Result :
[[1. 2. 3.]
 [0. 5. 6.]
 [4. 7. 8.]]      node number:3323
Move : down
Result :
[[1. 2. 3.]
 [4. 5. 6.]
 [0. 7. 8.]]      node number:5415
Move : right
Result :
[[1. 2. 3.]
 [4. 5. 6.]
 [7. 0. 8.]]      node number:8650
Move : right
Result :
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Result :
[[1. 2. 3.]
 [4. 5. 6.]
 [7. 0. 8.]]      node number:8650
Move : right
Result :
[[1. 2. 3.]
 [4. 5. 6.]
 [7. 8. 0.]]      node number:13882
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