

Practical - 3

Program Definition:

Write a python program to solve 8 puzzle problem using the A* algorithm.

Output:

```
Adeshara Brijesh: MoveUp
21012021001      5 1 2
                  4 3 x
                  7 6 8
5 x 8
4 2 1
7 3 6
MoveDown
5 2 8
4 x 1
7 3 6
MoveLeft
5 1 2
4 x 3
7 6 8
MoveDown
5 1 2
4 6 3
7 x 8
MoveLeft
1 2 3
5 x 6
4 7 8
MoveLeft
1 2 3
x 5 6
4 7 8
MoveUp
5 2 x
4 1 8
7 3 6
MoveLeft
5 x 2
4 1 8
7 3 6
MoveUp
x 1 2
5 6 3
4 7 8
MoveRight
1 x 2
5 6 3
4 7 8
MoveDown
5 1 2
4 x 8
7 3 6
MoveRight
1 2 x
5 6 3
4 7 8
MoveDown
5 1 2
4 3 8
7 x 6
MoveRight
5 1 2
4 3 8
7 6 x
MoveDown
1 2 3
5 6 x
4 7 8
MoveLeft
1 2 3
x 5 6
4 7 8
MoveDown
1 2 3
4 5 6
x 7 8
MoveRight
1 2 3
4 5 6
7 x 8
MoveRight
1 2 3
4 5 6
7 8 x
Steps to goal: 21
Execution Time= 6256.760358810425 ms
```