**GROUP-9 AI ASSIGNMENT-1 REPORT**

**1ST HEURISTIC**

ENTER THE INITIAL MATRIX TO COMPUTE THE SOLUTION USING A\* ALGORITHM:

3 9 1 15

14 11 4 6

13 0 10 12

2 7 8 5

**NO SOLUTION EXISTS**

**TOTAL TIME IS:- 0.000118**

**TOTAL NO OF NODES IS: 0**

ENTER THE INITIAL MATRIX TO COMPUTE THE SOLUTION USING A\* ALGORITHM:

1 2 3 4

5 6 7 8

9 10 11 12

13 14 0 15

SOLUTION IS:-

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1 2 3 4

5 6 7 8

9 10 11 12

13 0 14 15

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1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 0

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1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 0

**TOTAL TIME IS:- 0.000148**

**TOTAL NO OF NODES IS: 3**

**2ND HEURISTIC**

ENTER THE INITIAL MATRIX TO COMPUTE THE SOLUTION USING A\* ALGORITHM:

3 9 1 15

14 11 4 6

13 0 10 12

2 7 8 5

**NO SOLUTION EXISTS**

**TOTAL TIME IS:- 0.000108**

**TOTAL NO OF NODES IS: 0**

ENTER THE INITIAL MATRIX TO COMPUTE THE SOLUTION USING A\* ALGORITHM:

1 2 3 4

5 6 7 8

9 10 11 12

13 0 14 15

SOLUTION IS:-

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1 2 3 4

5 6 7 8

9 10 11 12

0 13 14 15

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1 2 3 4

5 6 7 8

9 10 11 12

13 14 0 15

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1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 0

**TOTAL TIME IS:- 0.000451**

**TOTAL NO OF NODES IS: 3**

Group Members:

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