In [**47**]: runfile('C:/Users/Pradeep Kumar/Desktop/Mtech Semesters/Sem 2/1. Artificial Intelligence/Lab Assignment/2/Assignment_2/TTT_heuristic.py', wdir='C:/Users/Pradeep Kumar/Desktop/Mtech Semesters/Sem 2/1. Artificial Intelligence/Lab Assignment/2/ Assignment_2')

Enter depth of search: 3

| | | | |

| | | | |

| | | | |

| | | | |

Player - 1

Time taken for 1 move = 0.24748897552490234 seconds
No. of explored nodes = 3617

| | | | |

| | | | |

| | | | |

| X | | | |

Player - 2

You are O: Choose blank tile from board between 1-16 (left to right and top to bottom): 16

| | | | |

| | | | |

| | | | |

| X | | | O |

Player - 1

Time taken for 1 move = 0.15994811058044434 seconds
No. of explored nodes = 2380

| | | | X |

| | | | |

```
|   |   |   |   |

| X |   |   | O |
```

Player - 2

You are O: Choose blank tile from board between 1-16 (left to right and top to bottom): 1

```
| O |   |   | X |

|   |   |   |   |

|   |   |   |   |

| X |   |   | O |
```

Player - 1

Time taken for 1 move = 0.18841099739074707 seconds
No. of explored nodes = 1464

```
| O |   |   | X |

| X |   |   |   |

|   |   |   |   |

| X |   |   | O |
```

Player - 2

You are O: Choose blank tile from board between 1-16 (left to right and top to bottom): 5
Invalid Position! Choosen tile is not blank. Choose another tile

You are O: Choose blank tile from board between 1-16 (left to right and top to bottom): 6

```
| O |   |   | X |

| X | O |   |   |

|   |   |   |   |

| X |   |   | O |
```

Player - 1

Time taken for 1 move = 0.04160881042480469 seconds
No. of explored nodes = 748

```
| O |   |   | X |
```

```
| X | O |   |   |

|   |   | X |   |

| X |   |   | O |
```

Player - 2

You are O: Choose blank tile from board between 1-16 (left to right and top to bottom): 7

```
| O |   |   | X |

| X | O | O |   |

|   |   | X |   |

| X |   |   | O |
```

Player - 1

Time taken for 1 move = 0.03176069259643555 seconds
No. of explored nodes = 400

```
| O | X |   | X |

| X | O | O |   |

|   |   | X |   |

| X |   |   | O |
```

Player - 2

You are O: Choose blank tile from board between 1-16 (left to right and top to bottom): 3

```
| O | X | O | X |

| X | O | O |   |

|   |   | X |   |

| X |   |   | O |
```

Player - 1

Time taken for 1 move = 0.01510930061340332 seconds
No. of explored nodes = 156

```
| O | X | O | X |

| X | O | O |   |
```

```
|   |   | X |   |

| X |   | X | O |
```

Player - 2

You are O: Choose blank tile from board between 1-16 (left to right and top to bottom): 8

```
| O | X | O | X |

| X | O | O | O |

|   |   | X |   |

| X |   | X | O |
```

Player - 1

Time taken for 1 move = 0.003838062286376953 seconds
No. of explored nodes = 40

```
| O | X | O | X |

| X | O | O | O |

|   |   | X |   |

| X | X | X | O |
```

Player - 2

You are O: Choose blank tile from board between 1-16 (left to right and top to bottom): 9

```
| O | X | O | X |

| X | O | O | O |

| O |   | X |   |

| X | X | X | O |
```

Player - 1

Time taken for 1 move = 0.0 seconds
No. of explored nodes = 4

```
| O | X | O | X |

| X | O | O | O |
```

| O | X | X | |

| X | X | X | O |

Player - 2

You are O: Choose blank tile from board between 1-16 (left to right and top to bottom): 12

| O | X | O | X |

| X | O | O | O |

| O | X | X | O |

| X | X | X | O |

Match is draw

In [**48**]: