File Edit Shell Debug Options Window Help

```
Python 3.13.7 (tags/v3.13.7:bcee1c3, Aug 14 2025, 14:15:11) [MSC v.1944 64 bit (
AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
======================= RESTART: C:/ayushsr/AI/lab 10.py =======================
(alpha, beta):  5 15
Result:  5
Times pruned:  1
>>>
```

Alpha beta pruning

File Edit Shell Debug Options Window Help

```
Python 3.13.7 (tags/v3.13.7:bcee1c3, Aug 14 2025, 14:15:11) [MSC v.1944 64 bit (
AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
======================= RESTART: C:/ayushsr/AI/lab 11.py =======================
NAND(0, 1) = 1
NAND(1, 1) = 0
NAND(0, 0) = 1
NAND(1, 0) = 1
>>>
```

Perceprtorn

File Edit Shell Debug Options Window Help

```
Python 3.13.7 (tags/v3.13.7:bcee1c3, Aug 14 2025, 14:15:11) [MSC v.1944 64 bit (
AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
======================= RESTART: C:/ayushsr/AI/lab 12.py =======================
Coloring solution found:
WA: Red
NT: Green
SA: Blue
Q: Red
NSW: Green
V: Red
>>>
```

Constraint

```
Python 3.13.7 (tags/v3.13.7:bcee1c3, Aug 14 2025, 14:15:11) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
======================= RESTART: C:/ayushsr/AI/lab 13.py =======================
Tic-Tac-Toe Game
Player 1 [X] --- Player 2 [O]

Please Wait...
     |   |
  ___|___|___
     |   |
  ___|___|___
     |   |
     |   |
Player 1's Turn [X]
Enter the position between [1-9] where you want to mark: 1
  X |   |
  ___|___|___
     |   |
  ___|___|___
     |   |
     |   |
Player 2's Turn [O]
Enter the position between [1-9] where you want to mark: 2
  X | O |
  ___|___|___
     |   |
  ___|___|___
     |   |
     |   |

Player 1's Turn [X]
Enter the position between [1-9] where you want to mark: 5
  X | O |
  ___|___|___
     | X |
  ___|___|___
     |   |
     |   |
Player 2's Turn [O]
Enter the position between [1-9] where you want to mark: 3
  X | O | O
  ___|___|___
     | X |
  ___|___|___
     |   |
     |   |
Player 1's Turn [X]
Enter the position between [1-9] where you want to mark: 9
  X | O | O
  ___|___|___
     | X |
  ___|___|___
     |   | X
     |   |
Player 1 Won

Press Enter to exit...
```

Tic tca toe