TE COMPS-A

```
import random
def print board(board):
def check_winner(board, player):
      if all(board[i][j] == player for j in range(3)) or all(board[j][i] == player
for j in range(3)):
  if all(board[i][i] == player for i in range(3)) or all(board[i][2 - i] == player
for i in range(3)):
def evaluate(board):
  elif check winner(board, '0'):
def is board full(board):
def get available moves(board):
def get_best_move(board):
   for move in get available moves (board):
```

```
for move in get_available_moves(board):
  return random.choice(get available moves(board))
def main():
      player_move = tuple(map(int, input('Enter your move (row col): ').split()))
      if board[player_move[0]][player_move[1]] == ' ':
          board[player_move[0]][player_move[1]] = 'X'
      if check winner(board, 'X'):
      if is_board_full(board):
```

```
# Computer's turn
print('Computer\'s turn')
computer_move = get_best_move(board)
board[computer_move[0]][computer_move[1]] = '0'

# Check if the computer wins
if check_winner(board, '0'):
    print_board(board)
    print('Computer wins!')
    break

# Check for a draw again
if is_board_full(board):
    print_board(board)
    print('It\'s a draw!')
    break

if __name__ == "__main__":
    main()
```

Output:

```
• vigneshrk@Vigneshs-MacBook-Air ai % /usr/local/bin/python3 /Users/vigneshrk/Desktop/ai/EXP1.2.PY
Welcome to Tic-Tac-Toe!

Enter your move (row col): 0 0
Computer's turn
X
0

Enter your move (row col): 2 2
Computer's turn
X
0 0
X

Enter your move (row col): 1 0
Computer's turn
X
0 0
X

Enter your move (row col): 0 2
Computer's turn
X
0 0
X

Enter your move (row col): 0 2
Computer's turn
X 0 0
0 X

Enter your move (row col): 2 1
X 0 X
X 0 0
0 X

Enter your move (row col): 2 1
X 0 X
X 0 0
0 X

It's a draw!
□ vigneshrk@Vigneshs-MacBook-Air ai % ■
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```