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):
  if check winner(board, 'X'):
def is board full(board):
def get available moves (board):
def get_best_move(board):
  magic_square = [[2, 7, 6], [9, 5, 1], [4, 3, 8]]
  for move in get_available_moves(board):
      score = magic square[i][j]
```

```
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 is_board_full(board):
      computer_move = get_best_move(board)
      board[computer_move[0]][computer_move[1]] = '0'
```

```
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:

```
/usr/local/bin/python3 /Users/vigneshrk/Desktop/ai/exp2.py

vigneshrk@Vigneshs-MacBook-Air ai % /usr/local/bin/python3 /Users/vigneshrk/Desktop/ai/exp2.py

Welcome to Tic-Tac-Toe!

Enter your move (row col): 2 0

Computer's turn

0 X

X 0

Enter your move (row col): 1 1

Computer's turn

0 X

X 0

Enter your move (row col): 1 2

Computer's turn

0 X

X 0

Enter your move (row col): 0 2

0 X X

X 0

Enter your move (row col): 0 2

0 X

0 X

Vou win!

vigneshrk@Vigneshs-MacBook-Air ai % []
```