

Code Explanation:

- 1) The code starts by importing all the necessary libraries.
- 2) Next, it creates an empty board and checks for empty places on the board.
- 3) The possibilities() function then selects a random place for the player and returns the board.
- 4) The row_win(), col_win(), and diag_win() functions check whether the player has three of their marks in a horizontal row, vertical row, or diagonal row, respectively.
- 5) If so, they return True and win is set to that player.
- 6) If not, they continue checking until either one of these conditions is met.
- 7) Finally, evaluate() determines whether there is a winner or tie based on the results of the other two functions.
- 8) If there is no winner (i.e., all players have zero marks), then no action is taken and the program terminates with an error message stating that there was no game played!
- 9) Otherwise, if both players have at least one mark in each column and row but not in any diagonal line (a situation called a deadlock), then play continues as normal with whoever has more wins being declared the winner.
- 10) In case of a tie, play goes back to evaluating who won last time; this process repeats until somebody wins or somebody loses all their pieces (which ends up being Game Over
- 11) The code creates an empty board and then checks for the player having three marks in a horizontal row, vertical row or diagonal row.
- 12) If the player has achieved this, the code sets the winner variable to be equal to the corresponding value from that row on the board.
- 13) If there is no winner, then all of the players' pieces are set to 0 and the program ends.