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1  # for display the tic tac toe board
2  def print_board(a):
3      print("", a[1], " |", a[2], " | ", a[3], " ")
4      print("-----")
5      print("", a[4], " |", a[5], " | ", a[6], " ")
6      print("-----")
7      print("", a[7], " |", a[8], " | ", a[9], " ")
8
9
10 # for display the instruction of game
11 def print_instructions():
12     print("\n----- WELCOME TO TIC TAC TOE
13     ----- \n\n")
14     print_board(pos)
15     print()
16
17     players[0] = input("Player 1 : ")
18     players[1] = input("Player 2 : ")
19
20     print("\n----- Instructions -----")
21     print("->", players[0], "you will using X")
22     print("->", players[1], "you will using 0")
23     print("-> Turn starts from", players[0])
24     print("-> Potisions are like :-")
25     print("  1 |  2 |  3 ")
26     print("-----")
27     print("  4 |  5 |  6 ")
28     print("-----")
29     print("  7 |  8 |  9 ")
30     print("-> press S to start the game")
31     flag = input()
32     return flag
33
34 # for start the game
35 def startgame():
36     turn = 0
37     for i in range(9):
38         if turn % 2 == 0:
39             print("\nthis is ur turn", players[0])
40             p = int(input("Please Enter postion : "))

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41         v = 'x'
42         pos[p] = v
43         print_board(pos)
44         winner = checkwin(v)
45         if winner is "nobody":
46             turn = 1
47             continue
48         else:
49             print("\n\nHurray !!,", players[0], "
you win ☺☺")
50             break
51     else:
52         print("\nthis is ur turn", players[1])
53         p = int(input("Please Enter postion : "))
54         v = '0'
55         pos[p] = v
56         print_board(pos)
57         winner = checkwin(v)
58         if winner is "nobody":
59             turn = 0
60             continue
61         else:
62             print("\n\nHurray !!,", players[1], "
you win ☺☺")
63             break
64     else:
65         print("\n\nGame is Tie")
66
67
68 # check for winner
69 def checkwin(v):
70     for i in winning_conditions:
71         if (pos[i[0]], pos[i[1]], pos[i[2]]) == (v, v
, v):
72             winner = players[0]
73             break
74         elif (pos[i[0]], pos[i[1]], pos[i[2]]) == (v
, v, v):
75             winner = players[1]
76             break
77     else:

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```
78     winner = "nobody"  
79     return winner  
80  
81  
82 # main code  
83 pos = ['', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ',  
      ' ']  
84 players = ['', '']  
85 winning_conditions = [(1, 2, 3), (4, 5, 6), (7, 8, 9)  
    ), (1, 4, 7), (2, 5, 8), (3, 6, 9), (1, 5, 9), (3, 5  
    , 7)]  
86 flag = print_instructions()  
87 if flag == 's' or flag == 'S':  
88     startgame()  
89 else:  
90     print("Invalid Entry")  
91
```