```
TicTacToe.py
  \leftarrow
          Saved
1 import numpy as np
2 import random
3 board = [['-','-','-'],
      , '-', '-'],
, '-', '-']]
6
  def isDraw(board) :
8
       for i in range(3):
9
           for j in range(3):
               if board[i][j] == '-' :
10
11
12
14 def isWon(board) :
       for i in range(3):
           if (board[0][i] == board[1][i] and board[2][i] == board[1][i] and board[2][i]!='-') :
16
17
18
           if board[i][0] == board[i][1] and board[i][2] == board[i][1] and board[i][2]!= -':
19
20
21
       if(board[0][0] == board[1][1] and board[1][1] == board[2][2] and board[2][2]!='-'):
22
23
24
       if(board[0][2] == board[1][1] and board[2][0] == board[1][1] and board[2][0]!='-'):
25
26
27
28
29 def
      display(board) :
30
      print(np.matrix(board))
31
32
33 def game(board) :
34
      print("You are X and computer is 0")
      isTurn = True
35
       for i in range(9):
36
37
           display(board)
38
           if(isDraw(board)) :
               print("Game has ended in a draw!")
39
40
41
           if i%2 == 0 :
               print("It is your turn : ")
print("Enter row and column
42
43
               row = int(input())
44
45
               col = int(input())
               while board[row-1][col-1] != '-' :
46
47
                                      ove! Please Enter again")
                   print("Invalid !
                    row = int(input())
48
49
                   col = int(input())
               board[row-1][col-1] = 'X
50
51
               if isWon(board) :
                   display(board)
53
54
               print("Computer's turn : ")
56
               row = random.randint(0,2)
57
               col = random.randint(0,2)
58
               while(board[row][col]!='-') :
59
60
                    row = random.randint(0,2)
61
                   col = random.randint(0,2)
               board[row][col]='0
62
63
               if isWon(board) :
64
                   print("Computer Wins!")
65
                   display(board)
66
67 game (board)
```

```
Terminal
You are X and computer is O
[['-' '-' '-']
['-' '-' '-']
['-' '-' '-']
It is your turn
Enter row and column :
1
[['X' '-' '-']
['-' '-' '-']
['-' '-' '-']]
Computer's turn
[['X' '-' '0']
    ['-' '-' '-']
    ['-' '-' '-']]
It is your turn
Enter row and column :
2
2
[['X'
                '0']
 ['-' 'x' '-']
['-' '-' '-']]
Computer's turn
                '0']
['-' 'X' '-']
['0' '-' '-']]
It is your turn
Enter row and column :
2
[['X']]
        'X' '0']
        'X' '-']
'-' '-']]
Computer's turn
[['X' 'X' '0']
['-' 'X' '-']
         '-' '0']]
It is your turn
Enter row and column :
2
[['X' 'X' '0']
 ['X' 'X' '-']
['0' '-' '0']]
Computer's turn
Computer Wins!
[['X' 'X' '0']
 ['X' 'X' '0']
['0' '-' '0']]
Process finished.
```