```
17-11-23
 Program 1: Implement Tic Tac Toe game
board = [ for x in range (10)]
def insert detter (letter, pos):
     board (pos) = letter
def space & free (pos):

return board [pos] == '
def front Board (board):
     'punt (' 1 1)
     peint ( ' + board[1] + ' 1 ' + board[2] + ' 1 ' + board[3])
     pent ( 111)
     print (" + board[4] + "1" + board[5] + "1" + board[6])
     peint ( 1 1')
     just ( ' + 1)
     pint ( ' ----- ')
    print ( ' + board [7] + 1 + board [8] + 1 + board [9])
    paint ( 1 1')
  netur ( bo[1] = = table and bo[2] = = le and bo[3] = = le)
def ishlinner ( $60, le):
        (bo[4] == le and bo[5] == le and bo[6] == le)
        (bo[4]==le and bo[8]==le and bo[9]==le)
        (bo[1]==le and bo[4]==le and bo[7]=-le)
       (bo[2)==le and bo[s]==le)
      (bo[3) = = le and bo[6] = = le and bo[9] = = le)
      (bo[1] == le and bo[5] == le and bo[9] == le)
      11.57=le and bo[5]==le and bo[7]==le)
```

```
def playertone ():
      run = Tuc
          move = int (input (" Enter the position where you want to place: ")
      while sun:
          if (move > 0 and move < 10):
               if space la Face (move):
                      run = False
                      insetletter ('X', move)
                  paint ("Enter another position, this position is occupied.")
                else:
           else:
              frint ("Enter position within the range.")
dy comptone ():
       sun = True
       while run:
          morce = random. rand == (1,10)
         if (more to and more to):
                if space Isfree (move):
                     sun = False
                     insert Letter ('O', more)
                continue
while if the (board, wunt (' ') & ):
            player Hour ();
             peint Board ( board)
             if ( is Winner ( board , x')).
                print ( You won')
                 break
            clae:
              comptione()
              Mint Board (board)
              if (is Winner (board, 'O')):
               pent ( " Computer won")
    else:
     paint ( "This is a tie")
```

```
PS C:\Users\neha2\OneDrive\Documents\NehaKamath_1BM21CS113_AILab> python would you like to go first or second? (1/2)
Player move: (0-8)
    X
Player move: (0-8)
0 0
```

```
Player move: (0-8)
0 | 0 | X
   | X |
0
0 | 0 | X
0
Player move: (0-8)
0 | 0 | X
0
  0 X
```

```
Player move: (0-8)
 0 0 X
X \mid X \mid 0
The game was a draw.
```