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17-11-23
 Program 1: Implement Tic Tac Toe Game
board = [ for x in range (10)]
def insert detter (letter, pos):
     boad [pos] = letter
def space & free (pos):
     retur board [pos] == "
def front Board (board):
     punt ( 1 1)
     pent (' '+ board[1] + '1' + board[2] + '1' + board[3])
     peint ( 1 1')
     punt ('----')
     print (' ' + board[4] + '1' + board[5] + '1' + board[6])
    peint ( 1 1')
    just ( ' + 1')
    pent ( ' ---- ')
    punt (' '+ board [7] + 1 + board [8] + 1 + board [9])
    paint ( 11')
  return ( bo[i] = = take le and bo[2] = = le and bo[3] = = le)
def ishlirrer ( $60, le):
        (bo[4] == le and bo[5] == le and bo[6] == le)
       (bo[]==le and bo[8]==le and bo[9]==le)
                   and bo[4] == le and bo[7] = . le)
       (bo[3) == le and bo[6] == le and bo[9] == le)
      (bo[1] == le and bo[5] == le and bo[9] == le)
      1. [2]==le and bo[5]==le and bo[7]==le)
```

```
def player Hore ():
         run = Truc
            move = int(input ("Enter the position where you want to place: "))
         while run:
             if (move > 0 and move < 10):
                  if space la Face (move):
                        run = False
                        insullettu ('X', move)
                    paint ("Enter another position, this position is occupied.")
                front ("Enter position within the range.")
  dy comptions ():
         sun = True
         while sun:
            more = random. rand int (1,10)
            if (mone >0 and more <+0):
                  if space Isfree (more):
                       insert detter ('O', morce)
                  continue
def main ():
  while if the (board, wunt (''))):
               player Hove () = 31 (5) od bon
               peint Board ( board)
               if ( is Winner ( board , x')).
                  print ( " You won")
               clae:
                comptione()
                 print Board (board)
                if (is Winner (board, 'O')):
                  pent ( " Computer veon")
       paint ( "This is a tie")
```

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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.
```