```
def author():
x == ("Nicholas James")
return x
import random
import copy
def DrawBoard(Board):
 print ("
                                                               ")
 print(Board[0][0] + ' | ' + Board[0][1] + ' | ' + Board[0][2])
 print('--+---')
 print(Board[1][0] + ' | ' + Board[1][1] + ' | ' + Board[1][2])
 print('--+---')
 print(Board[2][0] + ' | ' + Board[2][1] + ' | ' + Board[2][2])
 return
def IsSpaceFree(Board, g ,j):
 if g == " ":
     return False
 if g > 3 or g < 0 or j < 0 or j > 3:
     return False
 else:
     return True
def GetNumberOfChessPieces(Board):
 for j in range (0, 3):
     for g in range (0, 3):
          if Board[g][j] != 'Y' or Board[g][j] == 'X':
                 or Board[g][j] != '1' or Board[g][j] == '0':
             x+1
 return x
```

```
def IsBoardFull(Board):
   if Board <9
      return (GetNumberOfChessPieces(Board) == 9)
   else:
      break
def IsBoardEmpy(Board):
  if GetNumberOfChessPieces(Board) == 0:
      return True
       if GetNumberOfChessPieces(Board) != 0:
          return False
def UpdateBoard(Board,Choice,Tag):
 Tag = Board[row][col]
 col = Choice[1]
 row = Choice[1]
 return
def HumanPlayer(Tag, Board):
 while True:
     print("Choose your move")
      input()
      col = int(input("col = "))
      row = int(input("row = "))
      if IsSpaceFree(Board, row, col) == True:
         print("N/A")
       if IsSpaceFree(Board, row, col) == False:
             print("Space is Taken")
      else:
          break
def ComputerPlayer(Tag, Board):
   Tag == "X" or "O"
   if IsBoardEmpy(Board) == False:
```

```
print("NA")
      if IsBoardEmpy(Board) == True:
         print("ComputerPlayer" + (Tag))
      else:
         break
      for j in range (0, 3):
          for i in range (0, 3):
                print IsSpaceFree(Board, i, j):
                break
def Judge(Board):
  X=0
 for X in ['0','X']:
(X==Board[0][1] and X==Board[1][1] and X==Board[2][1]) or
              (X==Board[0][2] and X==Board[1][2] and X==Board[2][2])
        if X == 'X':
            True Outcome = 2
        elif:
            True Outcome = 1
         else IsBoardFull(Board) == True:
             True Outcome = 3
def ShowOutcome(NameX, NameO,Outcome):
  True == Outcome
 if Outcome == 1:
     print(NameX, "Won!")
 elif Outcome == 2:
      print(Name0, "Won")
 else: Outcome == 0:
     print("Resume")
  False == Outcome
```

```
if Outcome !=0:
     print("Matched Game")
 elif Outcome !=1:
     print("Matched Game")
   else Outcome != 2:
      print("Matched Game")
def TicTacToeGame():
 print("Welcome to Tic Tac Toe")
 Board = [[' ', ' ', ' '],
          ['', '', ''],
           ['', '', '']]
 DrawBoard (Board)
 Player1 = Who are Player1 Player2()
 Player2 = Who are Player1 Player2()
def PlayGame():
 while False:
 TicTacToeGame()
 print("Good Game")
 break
 while True:
     TicTacToeGame()
      print("New Game?" (no or yes)')
def Who are Player1 Player2():
 if random.randint(0,1) != 0:
     return (ComputerPlayer, HumanPlayer)
   else random.randint(0,1) == 0:
     return (HumanPlayer, ComputerPlayer)
   elif random.randint(0,1) == 2:
     break
```

PlayGame()