**TIC TAC TOE ASSIGNMENT**

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# Definitions of the Game Board Setup

x\_mark = " X "

o\_mark = " O "

blank  = "   "

row0 = [blank, blank, blank]

row1 = [blank, blank, blank]

row2 = [blank, blank, blank]

gameboard = [row0, row1, row2]

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#function to add winning combinations

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# Function to Print The TicTacRoe Game Board

def printBoard():

  rows = 0

  while (rows < 3):

    print(gameboard[rows])

    rows = rows + 1

  print(" ")

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# Function to Add a Players Move to the Game Board

def addMove (mark, row, col):

  gameboard[row][col] = mark

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# Main Program Code is Below

# print the starting Board

printBoard()

rowMove = int(input("Player x make a move; row = "))

colMove = int(input("player x make a move; col ="))

if (gameboard[rowMove][colMove] != blank):

  print("Move spot is already taken! Try again...")

  rowMove = int(input("Player X make a move: row = "))

  colMove = int(input("Player X make a move: col = "))

addMove(x\_mark,rowMove,colMove)

# Add a move for Player ("x\_mark,rowMove,colMove)

printBoard()

rowMove = int(input("Player o make a move; row = "))

colMove = int(input("player o make a move; col ="))

if (gameboard[rowMove][colMove] != blank):

  print("Move spot is already taken! Try again...")

  rowMove = int(input("Player X make a move: row = "))

  colMove = int(input("Player X make a move: col = "))

addMove(o\_mark,rowMove,colMove)

# Add a move for Player ("o\_mark,rowMove,colMove)

printBoard()

rowMove = int(input("Player x make a move; row = "))

colMove = int(input("player x make a move; col ="))

if (gameboard[rowMove][colMove] != blank):

  print("Move spot is already taken! Try again...")

  rowMove = int(input("Player X make a move: row = "))

  colMove = int(input("Player X make a move: col = "))

addMove(x\_mark,rowMove,colMove)

# Add a move for Player ("x\_mark,rowMove,colMove)

printBoard()

rowMove = int(input("Player o make a move; row = "))

colMove = int(input("player o make a move; col ="))

if (gameboard[rowMove][colMove] != blank):

  print("Move spot is already taken! Try again...")

  rowMove = int(input("Player X make a move: row = "))

  colMove = int(input("Player X make a move: col = "))

addMove(o\_mark,rowMove,colMove)

# Add a move for Player ("o\_mark,rowMove,colMove)

printBoard()

rowMove = int(input("Player x make a move; row = "))

colMove = int(input("player x make a move; col ="))

if (gameboard[rowMove][colMove] != blank):

  print("Move spot is already taken! Try again...")

  rowMove = int(input("Player X make a move: row = "))

  colMove = int(input("Player X make a move: col = "))

addMove(x\_mark,rowMove,colMove)

# Add a move for Player ("x\_mark,rowMove,colMove)

printBoard()

rowMove = int(input("Player o make a move; row = "))

colMove = int(input("player o make a move; col ="))

if (gameboard[rowMove][colMove] != blank):

  print("Move spot is already taken! Try again...")

  rowMove = int(input("Player X make a move: row = "))

  colMove = int(input("Player X make a move: col = "))

addMove(o\_mark,rowMove,colMove)

# Add a move for Player ("o\_mark,rowMove,colMove)

printBoard()

rowMove = int(input("Player x make a move; row = "))

colMove = int(input("player x make a move; col ="))

if (gameboard[rowMove][colMove] != blank):

  print("Move spot is already taken! Try again...")

  rowMove = int(input("Player X make a move: row = "))

  colMove = int(input("Player X make a move: col = "))

addMove(o\_mark,rowMove,colMove)

# Add a move for Player ("x\_mark,rowMove,colMove)

printBoard()

rowMove = int(input("Player o make a move; row = "))

colMove = int(input("player o make a move; col ="))

if (gameboard[rowMove][colMove] != blank):

  print("Move spot is already taken! Try again...")

  rowMove = int(input("Player X make a move: row = "))

  colMove = int(input("Player X make a move: col = "))

addMove(o\_mark,rowMove,colMove)

# Add a move for Player ("o\_mark,rowMove,colMove)

printBoard()