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#TIC TAC TOE IMPLEMENTATION
board={1:' ',2:' ',3:' ',
     4:' ',5:' ',6:' '
     7:' ',8:' ',9:' '
}
def printBoard(board):
  print(board[1]+'|'+board[2]+'|'+board[3])
  print('-+-+-')
  print(board[4] + '|' + board[5] + '|' + board[6])
  print('-+-+-')
  print(board[7] + '|' + board[8] + '|' + board[9])
  print('\n')
def spaceFree(pos):
  if(board[pos]==' '):
       return True
  else:
       return False
def checkWin():
  if(board[1]==board[2] and board[1]==board[3] and board[1]!=' '):
       return True
  elif(board[4]==board[5] and board[4]==board[6] and board[4]!=' '):
       return True
  elif(board[7]==board[8] and board[7]==board[9] and board[7]!=' '):
       return True
  elif (board[1] == board[5] and board[1] == board[9] and board[1] != ' '):
       return True
  elif (board[3] == board[5] and board[3] == board[7] and board[3] != ' '):
       return True
  elif (board[1] == board[4] and board[1] == board[7] and board[1] != ' '):
       return True
  elif (board[2] == board[5] and board[2] == board[8] and board[2] != ' '):
       return True
  elif (board[3] == board[6] and board[3] == board[9] and board[3] != ' '):
       return True
  else:
       return False
def checkMoveForWin(move):
  if (board[1]==board[2] and board[1]==board[3] and board[1] ==move):
       return True
  elif (board[4]==board[5] and board[4]==board[6] and board[4] ==move):
       return True
  elif (board[7]==board[8] and board[7]==board[9] and board[7] ==move):
      return True
  elif (board[1]==board[5] and board[1]==board[9] and board[1] ==move):
       return True
  elif (board[3]==board[5] and board[3]==board[7] and board[3] ==move):
       return True
  elif (board[1]==board[4] and board[1]==board[7] and board[1] ==move):
       return True
  elif (board[2]==board[5] and board[2]==board[8] and board[2] ==move):
       return True
  elif (board[3]==board[6] and board[3]==board[9] and board[3] ==move):
       return True
  else:
      return False
def checkDraw():
  for key in board.keys():
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          if (board[key]==' '):
              return False
      return True
   def insertLetter(letter, position):
      if (spaceFree(position)):
          board[position] = letter
          printBoard(board)
          if (checkDraw()):
              print('Draw!')
          elif (checkWin()):
              if (letter == 'X'):
                  print('Bot wins!')
              else:
                  print('You win!')
          return
      else:
          print('Position taken, please pick a different position.')
          position = int(input('Enter new position: '))
          insertLetter(letter, position)
          return
   player = '0'
   bot ='X'
   def playerMove():
      position=int(input('Enter position for 0:'))
      insertLetter(player, position)
      return
   def compMove():
      bestScore=-1000
      bestMove=0
      for key in board.keys():
          if (board[key]==' '):
              board[key]=bot
              score = minimax(board, False)
              board[key] = ' '
              if (score > bestScore):
                  bestScore = score
                  bestMove = key
      insertLetter(bot, bestMove)
      return
   def minimax(board, isMaximizing):
      if (checkMoveForWin(bot)):
          return 1
      elif (checkMoveForWin(player)):
          return -1
      elif (checkDraw()):
          return 0
      if isMaximizing:
          bestScore = -1000
          for key in board.keys():
              if board[key] == ' ':
                  board[kev] = bot
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score = minimax(board, False)
               board[key] = ' '
               if (score > bestScore):
                   bestScore = score
       return bestScore
   else:
       bestScore = 1000
       for key in board.keys():
           if board[key] == ' ':
               board[key] = player
               score = minimax(board, True)
               board[key] = ' '
               if (score < bestScore):</pre>
                   bestScore = score
       return bestScore
print('OUTPUT:')
print('SWAPNIL SAHIL (1BM22CS300)')
while True:
    compMove()
    if checkWin():
        print('Bot wins!')
        break
    if checkDraw():
        print('Draw!')
        break
    playerMove()
    if checkWin():
        print('You win!')
        break
```