**PROGRAM-18**

#writing a program fr tictactoe

#printing board

a=['1','2','3','4','5','6','7','8','9']

b=[]

b=a

def printboard() :

print( '\n-----')

print( '|' + a[0] + '|' + a[1] + '|' + a[2] + '|')

print( ' -----')

print( '|' + a[3] + '|' + a[4] + '|' + a[5] + '|')

print( ' -----')

print( '|' + a[6] + '|' + a[7] + '|' + a[8] + '|')

print( ' -----\n')

p1 = True

while(True):

printboard()

#1st player plays

if p1:

P=input("player 1,choose your place : ")

if p in a:

a[int(P)-1] = 'x'

p1 = not p1

#player 2 plays

else:

p=input("player 2,choose your place : ")

if p in a:

a[int(p)-1] = '0'

p1 = not p1

#checking for rows

for i in range(0,3,6):

if(a[i]==a[i+1] and a[i]==a[i+2]):

print("game over");

printboard()

exit()

#checking for columns

for i in range(3):

if(a[i]==a[i+3] and a[i]==a[i+6]):

print("gameover....")

printboard()

exit()

#checking for diagnols(from left to right)

if(a[0]==a[4] and a[0]==a[8]):

print("game over")

printboard()

exit()

else:

print("you have entered an invalid position")

continue