PYTHON PROGRAMMING INTERNSHIP

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TASK 1: TIC TAC TOE GAME

CODE:

def print\_board(board):

for i in range(3):

print(board[3\*i] + "|" + board[3\*i+1] + "|" + board[3\*i+2])

if i < 2:

print("-+-+-")

def check\_win(board, player):

win\_positions = [

[0,1,2], [3,4,5], [6,7,8],

[0,3,6], [1,4,7], [2,5,8],

[0,4,8], [2,4,6]

]

for pos in win\_positions:

if all(board[i] == player for i in pos):

return True

return False

def check\_draw(board):

return all(spot != " " for spot in board)

def tic\_tac\_toe():

board = [" "]\*9

current\_player = "X"

while True:

print\_board(board)

move = int(input(f"Player {current\_player}, enter your move (1-9): ")) - 1

if board[move] != " ":

print("Spot taken, try again.")

continue

board[move] = current\_player

if check\_win(board, current\_player):

print\_board(board)

print(f"Player {current\_player} wins!")

break

if check\_draw(board):

print\_board(board)

print("It's a draw!")

break

current\_player = "O" if current\_player == "X" else "X"

tic\_tac\_toe()

OUTPUT



