PYTHON PROGRAMMING INTERNSHIP PROJECT BY: SAHIL PRASAD

TASK 1: TIC TAC TOE GAME

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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
I I
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```
Player X, enter your move (1-9): 1
X|X|
-+-+-
-+-+-
| |0
Player O, enter your move (1-9): 5
X|X|
-+-+-
[0]
-+-+-
| |0
Player X, enter your move (1-9): 3
X|X|X
-+-+-
 |0|
-+-+-
| |0
Player X wins!
```