```
TIC TAC TOE
```

```
def print board(board):
  for row in board:
     print("|".join(row))
  print()
def check winner(board, player):
  for row in board:
     if all(s == player for s in row):
        return True
  for col in range(3):
     if all(board[row][col] == player for row in range(3)):
        return True
  if all(board[i][i] == player for i in range(3)) or all(board[i][2 - i] == player for i in range(3)):
     return True
  return False
def is full(board):
  return all(cell != " " for row in board for cell in row)
def play game():
  board = [[" " for in range(3)] for in range(3)]
  current player = "X"
  while True:
     print board(board)
     row, col = map(int, input(f"Player {current player}, enter row and col (0-2, space
separated): ").split())
     if board[row][col] == " ":
        board[row][col] = current player
        if check_winner(board, current_player):
          print board(board)
          print(f"Player {current_player} wins!")
          break
        if is full(board):
          print board(board)
          print("It's a draw!")
          break
       current player = "O" if current player == "X" else "X"
     else:
        print("Cell already taken, try again.")
```

```
play_game()
```

## **OUT PUT**

```
Player X, enter row and col (0-2, space separated): 2 2
X|0|
|X|
|0|X
Player X wins!
```

## Suhas B P (1BM23CS345)

```
Player X, enter row and col (0-2, space separated): 2 1
X|0|X
X|0|0
0|X|X

It's a draw!
```

## Suhas BP (1BM23CS345)

```
Player 0, enter row and col (0-2, space separated): 2 1 X|0|  
|0|X  
|0|X  
Player 0 wins!
```

## Suhas B P (1BM23CS345)