```
import java.util.Scanner;
public class game{
    public static void main(String[] args) {
        char [][] board=new char[3][3];
        for(int i=0;i<3;i++){</pre>
            for(int j=0;j<3;j++){</pre>
                board[i][j]=' ';
        char player='X';
        boolean gameover=false;
        Scanner sc=new Scanner(System.in);
        while(!gameover){
            printBoard(board);
            System.out.println();
            if(isDraw(board)){
                System.out.println("It's a draw!");
                gameover=true;
                break;
            System.out.println("Player "+player+" turn");
            System.out.println();
            int r=sc.nextInt();
            int c=sc.nextInt();
            if(r<board.length&&c<board.length&&board[r][c]==' '){</pre>
                board[r][c]=player;
                gameover=hasWon(board,player);
                if(gameover){
                  System.out.println();
                    System.out.println("Player "+player+" wins");
                    if(player=='X'){
                        player='0';
                        player='X';
                System.out.println("Position already occupied|| invaild operation");
        System.out.println();
        printBoard(board);
```

```
}
public static boolean isDraw(char [][]b){
   for(int i=0;i<b.length;i++){
     for(int j=0;j<b.length;j++){
        if(b[i][j]==' '){
            return false;
        }
}</pre>
```

```
}
}
return true;
}
```

```
public static boolean hasWon(char[][] board,char player){
    //check row
    for(int i=0;i<board.length;i++){
        if(board[i][0]==player&&board[i][1]==player&&board[i][2]==player){
            return true;
        }
    }
    //check for col
    for(int i=0;i<board[0].length;i++){
        if(board[0][i]==player&&board[1][i]==player&&board[2][i]==player){
            return true;
        }
    // for diagonal
    if(board[0][0]==player&&board[1][1]==player&&board[2][2]==player){
        return true;
    }
    if(board[0][2]==player&&board[1][1]==player&&board[2][0]==player){
        return true;
    }
    return false;
}

public static void printBoard(char[][] board){
    for(int i=0;i3;i++){
        for(int j=0;i3;j++){
            System.out.print(board[i][j]+" | ");
        }
        System.out.println();
    }
}</pre>
```