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import java.util.Scanner;

public class TicTacToe2 {

public static void main(String[] args) {

char [] board= new char[9];

for (int i=0;i<board.length;i++){

board[i]=' ';

}

char player='x';

boolean GameOver=false;

Scanner sc= new Scanner(System.*in*);

System.*out*.println("Enter Positions Like Follows: ");

System.*out*.println("0| 1| 2| \n" +

" 3| 4 | 5 | \n" +

" 6|7 | 8 |");

System.*out*.println("Player One is x and Player Two is o ");

while (!GameOver){

*PrintBoard*(board);

System.*out*.print("\n Player"+" "+player+" "+" Enter Position: ");

int row=sc.nextInt();

if(row>8 || row<0){

System.*out*.println("Enter From 0-8");

System.*exit*(0);

}

if (board[row]==' '){

board[row]=player;

GameOver=*HaveWon*(board,player);

if (GameOver){

System.*out*.println("Player"+" "+ player +" "+"Has Won");

*PrintBoard*(board);

System.*exit*(0);

}else if (*IsBoardFull*(board)){

System.*out*.println("The Board is full and Game is Drawn");

*PrintBoard*(board);

System.*exit*(0);

}else{

if (player =='x'){

player='o' ;

}else{

player='x';

}

}

}else{

System.*out*.println("Invalid Move Place Has Been Taken");

}

}

*PrintBoard*(board);

}

public static boolean HaveWon(char[] board, char player) {

for (int row=0;row<board.length;row++){

if (board[0]==player && board[1]==player && board[2]==player){

return true;

}

if (board[3]==player && board[4]==player && board[5]==player){

return true;

}

if (board[6]==player && board[7]==player && board[8]==player){

return true;

}

if (board[0]==player && board[3]==player && board[6]==player){

return true;

}

if (board[1]==player && board[4]==player && board[7]==player){

return true;

}

if (board[2]==player && board[5]==player && board[8]==player){

return true;

}

if (board[0]==player && board[4]==player && board[8]==player){

return true;

}

if (board[6]==player && board[4]==player && board[2]==player){

return true;

}

}

return false ;

}

public static void PrintBoard(char[] board) {

for (int i=0;i<board.length;i++){

System.*out*.print(board[i]+"|");

if (i==2 ||i==5){

System.*out*.println();

}

}

}

public static boolean IsBoardFull(char[] board) {

for (int i = 0; i < board.length; i++) {

if (board[i] == ' ') {

return false;

}

}

return true;

}

}