Import java.util.Scanner;

Public class TicTacToeGame {

Public static void main(String[] args) {

Char[] board = {‘-‘, ‘-‘, ‘-‘, ‘-‘, ‘-‘, ‘-‘, ‘-‘, ‘-‘, ‘-‘};

Char currentPlayer = ‘X’;

Scanner scanner = new Scanner(System.in);

Boolean gameOn = true;

While (gameOn) {

// Print the board

System.out.println(“Board:”);

For (int I = 0; I < 9; i++) {

System.out.print(board[i] + “ “);

If ((I + 1) % 3 == 0) {

System.out.println();

}

}

// Player move

Int move;

While (true) {

System.out.println(“Player “ + currentPlayer + “, enter your move (1-9): “);

Move = scanner.nextInt() – 1;

If (move >= 0 && move < 9 && board[move] == ‘-‘) {

Board[move] = currentPlayer;

Break;

} else {

System.out.println(“Invalid move, try again.”);

}

}

// Check for a win

If ((board[0] != ‘-‘ && board[0] == board[1] && board[1] == board[2]) || // Row 1

(board[3] != ‘-‘ && board[3] == board[4] && board[4] == board[5]) || // Row 2

(board[6] != ‘-‘ && board[6] == board[7] && board[7] == board[8]) || // Row 3

(board[0] != ‘-‘ && board[0] == board[3] && board[3] == board[6]) || // Column 1

(board[1] != ‘-‘ && board[1] == board[4] && board[4] == board[7]) || // Column 2

(board[2] != ‘-‘ && board[2] == board[5] && board[5] == board[8]) || // Column 3

(board[0] != ‘-‘ && board[0] == board[4] && board[4] == board[8]) || // Diagonal 1

(board[2] != ‘-‘ && board[2] == board[4] && board[4] == board[6])) { // Diagonal 2

gameOn = false;

System.out.println(“============================\nPlayer “ + currentPlayer + “ wins!”);

} else {

// Check for a draw

Boolean draw = true;

For (int I = 0; I < 9; i++) {

If (board[i] == ‘-‘) {

Draw = false;

Break;

}

}

If (draw) {

gameOn = false;

System.out.println(“It’s a draw!”);

} else {

// Switch player

If (currentPlayer == ‘X’) {

currentPlayer =’O’;

}else {

currentPlayer = ‘X’;

}

}

}

}

// Print final board

System.out.println(“============================\nFinal Board:”);

For (int I = 0; I < 9; i++) {

System.out.print(board[i] + “ “);

If ((I + 1) % 3 == 0) {

System.out.println();

}

}

Scanner.close();

}

}