Tic-Tac-Toe:

Description:

My project name is Tic-Tac-Toe game. This game is very popular and is fairly simple. In this game, there is a board with n * n squares. In my game, it is 3 * 3 squares. The game can be played by two players.

(1) gamer 1 (2) gamer 2

The goal of Tic-Tac-Toe game is to be one of the gamers to get three same symbols in a row-horizantally, vertically or diagonally on a 3*3 grid.

Requirements:

High level Requirements:

- * players should know the rules of the game.
- * create a 3 * 3 grid board.
- * Declare the winner.

Low level Requirements:

i) If any gamer is able to draw three Xs or three Ys in the following combinations then that player wins. The combinations are:

a)1,2,3	e)2,5,8
b)4,5,6	f)3,6,9
c)7,8,9	h)1,5,9

^{*} Knowing the game rules

- * creating a 3 * 3 grid board
 - i)we have to create a 3 * 3 grid board for the game for that I used function grid.
- ii) Nine squares were created as we used 3 * 3 grid and we have to name the squares from 1-9.
- * Declaring the winner
- i)The player who draw the three Xs or three Ys in the above combinations is declared as winner.
 - ii)TO check winner I used findwinner function.

Source Code:

```
else if (option = 5 && square[5] == '5')
square[5] = select;
                           else if (option == 6 && square[6] == '6')
square[6] = select;
                           else if (option == 7 && square[7] == '7')
square[7] = select;
                          else if (option = 8 &% square[8] == '8')
square[8] = select;
                           else if (option == 9 && square[9] == '9')
square[9] = select;
                                gamer-;
getch();
                           }
! = findwinner();
                     gamer++;
} while (i == - 1);
                     printf("==>\agamer %d win ", --gamer);
else
№ @0 Δ0
                                                                                                                                                                                                       Ln 5, Col 72 Spaces: 4 UTF-8 CRLF C Win32 R Q
       C Project_code.c X
                     if (square[1] -- square[2] && square[2] -- square[3])
                     else if (square[1] -- square[4] && square[4] -- square[7])
return 1;
                     else if (square[2] == square[5] & square[5] == square[8])
    return 1;
                      clse if (square[3] -- square[6] && square[6] -- square[9])
    return 1;
                      else if (square[1] -- square[5] && square[5] -- square[9])
return 1;
                      else if (square[3] -- square[5] && square[5] -- square[7])
    return 1;
                      else if (square[1] != '1' && square[2] != '2' && square[3] != '3' && square[4] != '4' && square[5] != '5' && square[6] != '6' && square[7] != '7' && square[8] != '8' && square[9] != '9')
```

Output: