# Pps mini project

# Tic tac toe

## Team –

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# Code-

```c
#include <stdio.h>
#include <conio.h>

char square[10] = { 'o', '1', '2', '3', '4', '5', '6', '7', '8', '9' };

int checkwin();
void board();

int main()
{
    int player = 1, i, choice;

    char mark;
    do
```

```c
{
    board();
    player = (player % 2) ? 1 : 2;

    printf("   Player %d, enter a number:  ", player);
    scanf("%d", &choice);

    mark = (player == 1) ? 'X' : 'O';

    if (choice == 1 && square[1] == '1')
        square[1] = mark;

    else if (choice == 2 && square[2] == '2')
        square[2] = mark;

    else if (choice == 3 && square[3] == '3')
        square[3] = mark;

    else if (choice == 4 && square[4] == '4')
        square[4] = mark;

    else if (choice == 5 && square[5] == '5')
        square[5] = mark;

    else if (choice == 6 && square[6] == '6')
        square[6] = mark;

    else if (choice == 7 && square[7] == '7')
        square[7] = mark;

    else if (choice == 8 && square[8] == '8')
        square[8] = mark;
```

```c
        else if (choice == 9 && square[9] == '9')
            square[9] = mark;

        else
        {
            printf("   Invalid move ");

            player--;
            getch();
        }
        i = checkwin();

        player++;
    }while (i == - 1);

    board();

    if (i == 1)
        printf("   ==>\aPlayer %d win ", --player);
    else
        printf("   ==>\aGame draw");

    getch();

    return 0;
}


int checkwin()
{
    if (square[1] == square[2] && square[2] == square[3])
        return 1;

    else if (square[4] == square[5] && square[5] == square[6])
```

```
            return 1;

     else if (square[7] == square[8] && square[8] == square[9])

            return 1;

     else if (square[1] == square[4] && square[4] == square[7])

            return 1;

     else if (square[2] == square[5] && square[5] == square[8])

            return 1;

     else 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')

            return 0;
     else
            return  - 1;
}



/*********************

FUNCTION TO DRAW BOARD OF TIC TAC TOE WITH PLAYERS MARK

*********************/
```

```c
void board()
{
    system("cls");
    printf("\n\n \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n");
    printf("\t   Tic Tac Toe");
    printf("\n \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n\n");


    printf("   Player 1 (X)  -  Player 2 (O)\n\n");



    printf(" \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n");
    printf("\t|     |     |     |\n");
    printf("\t|  %c  |  %c  |  %c  |\n", square[1], square[2], square[3]);

    printf("\t|__|_|__|\n");
    printf("\t|     |     |     |\n");

    printf("\t|  %c  |  %c  |  %c  |\n", square[4], square[5], square[6]);

    printf("\t|__|_|__|\n");
    printf("\t|     |     |     |\n");

    printf("\t|  %c  |  %c  |  %c  |\n", square[7], square[8], square[9]);

    printf("\t|     |     |     |\n");
    printf(" \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n\n");
```

```
}
```

```
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦
             Tic Tac Toe
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦

    Player 1 (X)   -   Player 2 (O)

♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦
        |       |       |
        |   1   |   2   |   3   |
        |_____|_____|_____|
        |       |       |       |
        |   4   |   5   |   6   |
        |_____|_____|_____|
        |       |       |       |
        |   7   |   8   |   9   |
        |       |       |       |
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦

    Player 1, enter a number:  1
sh: 1: cls: not found


♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦
             Tic Tac Toe
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦

    Player 1 (X)   -   Player 2 (O)

♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦
        |       |       |
        |   X   |   2   |   3   |
        |_____|_____|_____|
        |       |       |       |
        |   4   |   5   |   6   |
        |_____|_____|_____|
        |       |       |       |
        |   7   |   8   |   9   |
        |       |       |       |
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦

    Player 2, enter a number:  2
sh: 1: cls: not found
```

```
◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆
          Tic Tac Toe
◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆

Player 1 (X)   -   Player 2 (O)

◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆
      |     |     |     |
      |  X  |  O  |  3  |
      |_____|_____|_____|
      |     |     |     |
      |  4  |  5  |  6  |
      |_____|_____|_____|
      |     |     |     |
      |  7  |  8  |  9  |
      |     |     |     |
◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆

   Player 1, enter a number:  5
sh: 1: cls: not found



      ◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆
          Tic Tac Toe
      ◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆

Player 1 (X)   -   Player 2 (O)

◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆
      |     |     |     |
      |  X  |  O  |  3  |
      |_____|_____|_____|
      |     |     |     |
      |  4  |  X  |  6  |
      |_____|_____|_____|
      |     |     |     |
      |  7  |  8  |  9  |
      |     |     |     |
◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆

   Player 2, enter a number:  3
sh: 1: cls: not found
```

```
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
              Tic Tac Toe
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

Player 1 (X)  -  Player 2 (O)

$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
      |      |      |      |
   |  X   |  O   |  O   |
      |_____|_____|_____|
      |      |      |      |
   |  4   |  X   |  6   |
      |_____|_____|_____|
      |      |      |      |
   |  7   |  8   |  9   |
      |      |      |      |
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

   Player 1, enter a number:  9
sh: 1: cls: not found


   $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
              Tic Tac Toe
   $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

Player 1 (X)  -  Player 2 (O)

$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
      |      |      |      |
   |  X   |  O   |  O   |
      |_____|_____|_____|
      |      |      |      |
   |  4   |  X   |  6   |
      |_____|_____|_____|
      |      |      |      |
   |  7   |  8   |  X   |
      |      |      |      |
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

   ==>Player 1 win

...Program finished with exit code 0
Press ENTER to exit console.
```

*thank you*