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CLASS:FY.BSc.COMPUTER SCIENCE

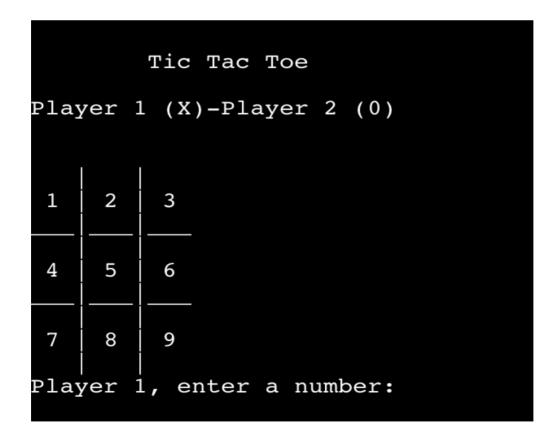
TITLE OF THE C PROJECT: TIC TAC TOE GAME

CODE:

```
#include <stdio.h>
#include <conio.h>
char square [10] = { '0', '1', '2', '3', '4', '5', '6', '7', '8', '9' };
int checkwin();
void board();
int main()
int player = 1, i, choice;
char mark;
do
{
board();
player = (player \% 2)?
printf("Player %d, enter a number: ", player);
scanf("%d", &choice);
mark = (player == 1)?
'X': '0';
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;
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;
/*FUNCTION TO RETURN GAME STATUS 1 FOR GAME IS OVER WITH RESULT -1 FOR
GAME IS IN PROGRESS O GAME IS OVER AND NO RESULT:*/
int checkwin()
if (square[1] = square[2] && square[2] = square[3])
    return 1;
else if (square [4] = square [5] && square [5] = square [6])
else if (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])
else if (square[3] = square [6] && square[6] = square[9])
     return 1;
else if (square[1] = square [5] && square[5] = square[9])
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*/
void board()
{
    printf("\n\n\tTic Tac Toe\n\n");
    printf("Player 1 (X)-Player 2 (0)\n\n\n");
    printf(" \wc | \wc | \wc \n", square[1], square [2], square [3]);
    printf(" \wc | \wc | \wc \n", square[1], square [2], square [3]);
    printf(" \wc | \wc | \wc \n", square[4], square [5], square[6]);
    printf(" \wc | \wc | \wc \n", square[4], square [5], square[6]);
    printf(" \wc | \wc | \wc \n", square[7], square [8], square[9]);
    printf(" \wc | \wc | \wc \n", square[7], square [8], square[9]);
    printf(" \wc | \wc \n", square[7], square [8], square[9]);
    printf(" \wc | \wc \n", square[7], square [8], square[9]);
    printf(" \wc | \wc \n", square[7], square [8], square[9]);
    printf(" \wc | \wc \n", square[7], square[8], square[9]);
    printf(" \wc | \wc \n", square[7], square[8], square[9]);
    printf(" \wc \n", square[8], square[9]);
```



```
Tic Tac Toe
Player 1 (X)-Player 2 (0)
     2
         3
 1
     5
          6
 4
          9
 7
     8
Player 1, enter a number: 5
        Tic Tac Toe
Player 1 (X)-Player 2 (0)
         3
 1
     2
          6
 4
     X
          9
 7
     8
Player 2, enter a number: 9
```

```
Tic Tac Toe
Player 1 (X)-Player 2 (0)
     2
         3
 1
         6
 4
     X
         0
 7
     8
Player 1, enter a number: 7
        Tic Tac Toe
Player 1 (X)-Player 2 (0)
     2
         3
1
 4
     X
         6
         0
X
     8
Player 2, enter a number: 3
```

```
Tic Tac Toe
Player 1 (X)-Player 2 (0)
 1
     2
         0
 4
         6
     X
         0
X
     8
Player 1, enter a number: 1
        Tic Tac Toe
Player 1 (X)-Player 2 (0)
     2
X
          0
 4
          6
     X
         0
Х
     8
Player 2, enter a number: 4
```

Tic Tac Toe Player 1 (X)-Player 2 (0) X 2 0 0 X 6 X 8 0 Player 1, enter a number: 2

Tic Tac Toe Player 1 (X)-Player 2 (0) X X 0 6 0 X 0 X 8 Player 2, enter a number: 6 Tic Tac Toe Player 1 (X)-Player 2 (0) X 0 X X 0 0 X 8 0 ==>Player 2 win ...Program finished with exit code 0

Press ENTER to exit console.