TIC TAC TOE GAME - SOURCE CODE

```
#include <stdio.h>
#include <conio.h>
#include <windows.h>
char square[10] = { 'o', '1', '2', '3', '4', '5', '6', '7', '8', '9' };
int checkwin();
void board(string,string);
int main()
 char name1[50];
 char name2[50];
 int player = 1, i, choice;
 SetConsoleTextAttribute(GetStdHandle(STD\_OUTPUT\_HANDLE), BACKGROUND\_BLUE | BACKGROUND\_GREEN);
printf("\n\t We have added the background colour.......");
SetConsoleTextAttribute(GetStdHandle(STD_OUTPUT_HANDLE),BACKGROUND_BLUE|BACKGROUND_GREEN|BACKGROUND_R
ED|BACKGROUND_INTENSITY);
printf("\n\n\tQUANTUM UNIVERSITY,ROORKEE
                                                ");
 printf("\n\n\t PROJECT
                              \n\n");
SetConsoleTextAttribute(GetStdHandle(STD_OUTPUT_HANDLE),BACKGROUND_BLUE|BACKGROUND_RED|BACKGROUND_INTE
NSITY);
printf("\n\n Enter First Gamer Name: ");
scanf("%s",name1);
SetConsoleTextAttribute(GetStdHandle(STD_OUTPUT_HANDLE),BACKGROUND_BLUE|BACKGROUND_GREEN|BACKGROUND_I
NTENSITY);
printf("\n\n Enter Second Gamer Name: ");
scanf("%s",name2);
 char mark;
```

```
do
  {
    board(name1, name2);
    player = (player % 2) ? 1 : 2;
if(player==1){
    printf(" %s your turn, enter a number: ", name1);
    scanf("%d", &choice);
}
else
  printf(" %s your turn, enter a number: ", name2);
    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;
  else if (choice == 9 && square[9] == '9')
    square[9] = mark;
  else
    printf("Invalid move Again !!");
    player--;
    getch();
  i = checkwin();
  player++;
}while (i == - 1);
board(name1,name2);
if (i == 1)
  printf("==>\n\a\t Congratulations %s, you won !! ",name1);
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])
    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
******/
void board(name1,name2)
{
 system("cls");
 printf("\n\t Tic Tac Toe\n\n");
 printf("\n\n\tQUANTUM UNIVERSITY,ROORKEE");
 printf("\n\n\t END SEMESTER EXAM\n\n");
 printf("\n\tDeveloped by - NAVIN KUMAR.... \n\n");
  printf("\t\ %s-(X)\ \&\ %s-(O)\n\n",name1,name2);
 printf("\t----\n");
 printf("\t %c | %c | %c \n", square[1], square[2], square[3]);
 printf("\t____|__\n");
 printf("\t | \ | \ \ \ ");
 printf("\t %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\n\n');
}
/******
END OF PROJECT ******/
```