Roll No:	907
Program No:	7
Name of Program:	Tic Tac Toe game
Objective:	To Design classic Multiplayer tic-tac-toe game

```
Source Code:
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
namespace TicTacTeo
    public partial class frmMain : Form
        Random myRandom;
        int turn;
        int count = 0;
        Boolean Winner = false;
        public frmMain()
            InitializeComponent();
            myRandom = new Random();
            turn = myRandom.Next(2);
        }
        private void panel2_Paint(object sender, PaintEventArgs e)
        }
        private void frmMain_Load(object sender, EventArgs e)
            if (turn == 0)
            {
                radp1.Checked = true;
                radp1.ForeColor = Color.BlueViolet;
            }
            else
                radp2.Checked = true;
                radp1.ForeColor = Color.BlueViolet;
            }
        }
        private void btn_Click(object sender, EventArgs e)
            count++;
```

```
MessageBox.Show("Player 1 wins");
                StopGame();
            }
            if(checkWinner("0"))
                MessageBox.Show("Player 2 wins");
                StopGame();
            }
            Button btn = (Button)sender;
            if (turn == 0)
            {
                btn.Text = "X";
                radp1.ForeColor = Color.Black;
                radp2.ForeColor = Color.BlueViolet;
                turn = 1;
            }
            else
            {
                btn.Text = "0";
                radp2.ForeColor = Color.Black;
                radp1.ForeColor = Color.BlueViolet;
                radp1.Checked = true;
                turn = 0;
            btn.Enabled = false;
            if (Winner == false && count == 9)
            {
                MessageBox.Show("its a draw");
                StopGame();
                btn.Enabled = true;
            }
        }
        void StopGame()
            btn0.Enabled = false;
            btn1.Enabled = false;
            btn3.Enabled = false;
            btn4.Enabled = false;
            btn5.Enabled = false;
            btn6.Enabled = false;
            btn7.Enabled = false;
            btn8.Enabled = false;
            btn9.Enabled = false;
            if(MessageBox.Show("Do You want to restart the
game","Continue",MessageBoxButtons.OKCancel)==DialogResult.OK)
            {
                ResetAll();
            }
            else
            {
                MessageBox.Show("Thank you for Playing!!!");
                this.Close();
```

if (checkWinner("X"))

```
}
void ResetAll()
    btn0.Enabled = true;
    btn1.Enabled = true;
    btn3.Enabled = true;
    btn4.Enabled = true;
    btn5.Enabled = true;
    btn6.Enabled = true;
    btn7.Enabled = true;
    btn8.Enabled = true;
    btn9.Enabled = true;
    btn0.Text = "";
    btn1.Text = "";
   btn3.Text = "";
    btn4.Text = "";
    btn5.Text = "";
    btn6.Text = "";
    btn7.Text = "";
    btn8.Text = "";
    btn9.Text = "";
    turn = myRandom.Next(2);
    if (turn == 0)
        radp1.Checked = true;
        radp1.ForeColor = Color.BlueViolet;
    }
    else
    {
        radp2.Checked = true;
        radp1.ForeColor = Color.BlueViolet;
    }
}
bool checkWinner(String val)
    if(btn0.Text.Equals(val) && btn1.Text.Equals(val) && btn3.Text.Equals(val))
    {
        Winner = true;
        return true;
    }
    else if (btn4.Text.Equals(val) && btn5.Text.Equals(val) && btn6.Text.Equals(val))
        Winner = true;
        return true;
    else if (btn7.Text.Equals(val) && btn8.Text.Equals(val) && btn9.Text.Equals(val))
    {
        Winner = true;
        return true;
```

```
else if (btn0.Text.Equals(val) && btn4.Text.Equals(val) && btn7.Text.Equals(val))
            {
                Winner = true;
                return true;
            else if (btn1.Text.Equals(val) && btn5.Text.Equals(val) && btn8.Text.Equals(val))
                Winner = true;
                return true;
            else if (btn3.Text.Equals(val) && btn6.Text.Equals(val) && btn9.Text.Equals(val))
            {
                Winner = true;
                return true;
            }
            else if (btn0.Text.Equals(val) && btn5.Text.Equals(val) && btn9.Text.Equals(val))
                Winner = true;
                return true;
            else if (btn3.Text.Equals(val) && btn5.Text.Equals(val) && btn7.Text.Equals(val))
                Winner = true;
                return true;
            return false;
        }
        private void btnReset_Click(object sender, EventArgs e)
            if (MessageBox.Show("Do You want to restart the game", "Continue",
MessageBoxButtons.OKCancel) == DialogResult.OK)
            {
                ResetAll();
            }
            else
            {
                MessageBox.Show("Thank you for Playing!!!");
                this.Close();
            }
        }
    }
}
```

OutPut:



