

DEPARTMENT OF COMPUTER ENGINEERING

Mini Project Report

Semester	S.E. Semester III – Computer Engineering
Subject	Skill Based Lab Course: OOP with Java (CSL304)
Subject Professor In-charge	Prof. Swapnil S. Sonawane
Assisting Teachers	Prof. Swapnil S. Sonawane
Roll Number —	Name of Students —
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Name of the Project:

Tic tac toe game

Project Description:

Created a TicTacToe game in Java NetBeans using Methods, call to methods, if statement, JFrame, jButtons, ¡Panels, jLabels and setting panels properties.

Project Code:

```
*/
public class Tic_tac_toe extends javax.swing.JFrame {
    /**
    * Creates new form Tic_tac_toe
        We created this program using net NetBeans
    */
    public Tic_tac_toe() {
        initComponents();
    }
}
```

```
* This method is called from within the constructor to initialize the
form.
     * WARNING: Do NOT modify this code. The content of this method is alw
ays
     * regenerated by the Form Editor.
   @SuppressWarnings("unchecked")
    // <editor-
fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {
        ¡Panel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        BTN2 = new javax.swing.JButton();
        BTN1 = new javax.swing.JButton();
        BTN3 = new javax.swing.JButton();
        reset = new javax.swing.JButton();
        BTN6 = new javax.swing.JButton();
        BTN5 = new javax.swing.JButton();
        BTN4 = new javax.swing.JButton();
        BTN9 = new javax.swing.JButton();
        BTN8 = new javax.swing.JButton();
        BTN7 = new javax.swing.JButton();
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT ON CLOSE
);
        setBackground(new java.awt.Color(0, 0, 0));
        jPanel1.setBackground(new java.awt.Color(0, 0, 0));
        jLabel1.setBackground(new java.awt.Color(0, 0, 0));
        jLabel1.setFont(new java.awt.Font("Eras Bold ITC", 1, 48)); // NOI
18N
        jLabel1.setForeground(new java.awt.Color(255, 255, 255));
        jLabel1.setText("Tic Tac Toe");
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayou
t(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        ¡Panel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)
```

```
.addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(135, 135, 135)
                .addComponent(jLabel1)
                .addContainerGap(181, Short.MAX VALUE))
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1L
ayout.createSequentialGroup()
                .addContainerGap(45, Short.MAX VALUE)
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED S
IZE, 103, javax.swing.GroupLayout.PREFERRED SIZE)
                .addGap(14, 14, 14))
        );
        BTN2.setFont(new java.awt.Font("Segoe UI", 1, 48)); // NOI18N
        BTN2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BTN2ActionPerformed(evt);
            }
        });
        BTN1.setFont(new java.awt.Font("Segoe UI", 1, 48)); // NOI18N
        BTN1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BTN1ActionPerformed(evt);
            }
        });
        BTN3.setFont(new java.awt.Font("Segoe UI", 1, 48)); // NOI18N
        BTN3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BTN3ActionPerformed(evt);
            }
        });
        reset.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N
        reset.setText("Play Again!!!");
        reset.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                resetActionPerformed(evt);
        });
```

```
BTN6.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BTN6ActionPerformed(evt);
        });
        BTN5.setFont(new java.awt.Font("Segoe UI", 1, 48)); // NOI18N
        BTN5.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BTN5ActionPerformed(evt);
        });
        BTN4.setFont(new java.awt.Font("Segoe UI", 1, 48)); // NOI18N
        BTN4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BTN4ActionPerformed(evt);
        });
        BTN9.setFont(new java.awt.Font("Segoe UI", 1, 48)); // NOI18N
        BTN9.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BTN9ActionPerformed(evt);
            }
        });
        BTN8.setFont(new java.awt.Font("Segoe UI", 1, 48)); // NOI18N
        BTN8.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BTN8ActionPerformed(evt);
            }
        });
        BTN7.setFont(new java.awt.Font("Segoe UI", 1, 48)); // NOI18N
        BTN7.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BTN7ActionPerformed(evt);
            }
        });
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getCo
ntentPane());
        getContentPane().setLayout(layout);
                                        SBL: OOP with Java - Semester III - Computer Engineering
```

BTN6.setFont(new java.awt.Font("Segoe UI", 1, 48)); // NOI18N

```
layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.L
EADING)
            .addGroup(layout.createSequentialGroup()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayo
ut.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addContainerGap()
                        .addComponent(jPanel1, javax.swing.GroupLayout.PRE
FERRED SIZE, javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout
.PREFERRED SIZE))
                    .addGroup(layout.createSequentialGroup()
                        .addGap(83, 83, 83)
                        .addGroup(layout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)
                            .addGroup(layout.createSequentialGroup()
                                 .addComponent(BTN1, javax.swing.GroupLayou
t.PREFERRED SIZE, 135, javax.swing.GroupLayout.PREFERRED SIZE)
                                .addGap(18, 18, 18)
                                .addComponent(BTN2, javax.swing.GroupLayou
t.PREFERRED SIZE, 135, javax.swing.GroupLayout.PREFERRED SIZE)
                                .addGap(18, 18, 18)
                                .addComponent(BTN3, javax.swing.GroupLayou
t.PREFERRED SIZE, 135, javax.swing.GroupLayout.PREFERRED SIZE))
                            .addGroup(layout.createSequentialGroup()
                                .addComponent(BTN4, javax.swing.GroupLayou
t.PREFERRED SIZE, 135, javax.swing.GroupLayout.PREFERRED SIZE)
                                .addGap(18, 18, 18)
                                .addComponent(BTN5, javax.swing.GroupLayou
t.PREFERRED SIZE, 135, javax.swing.GroupLayout.PREFERRED SIZE)
                                .addGap(18, 18, 18)
                                .addComponent(BTN6, javax.swing.GroupLayou
t.PREFERRED_SIZE, 135, javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGroup(layout.createSequentialGroup()
                                .addComponent(BTN7, javax.swing.GroupLayou
t.PREFERRED SIZE, 135, javax.swing.GroupLayout.PREFERRED SIZE)
                                .addGap(18, 18, 18)
                                .addComponent(BTN8, javax.swing.GroupLayou
t.PREFERRED SIZE, 135, javax.swing.GroupLayout.PREFERRED SIZE)
                                .addGap(18, 18, 18)
                                .addComponent(BTN9, javax.swing.GroupLayou
t.PREFERRED_SIZE, 135, javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGroup(layout.createSequentialGroup()
                                 .addGap(70, 70, 70)
```

```
.addComponent(reset, javax.swing.GroupLayo
ut.PREFERRED SIZE, 302, javax.swing.GroupLayout.PREFERRED SIZE)))))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT SIZE, Sho
rt.MAX_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.L
EADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED S
IZE, javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERR
ED SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacemen
t.RELATED, 53, Short.MAX VALUE)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayo
ut.Alignment.LEADING)
                    .addComponent(BTN1, javax.swing.GroupLayout.PREFERRED
SIZE, 140, javax.swing.GroupLayout.PREFERRED SIZE)
                    .addComponent(BTN2, javax.swing.GroupLayout.PREFERRED
SIZE, 140, javax.swing.GroupLayout.PREFERRED SIZE)
                    .addComponent(BTN3, javax.swing.GroupLayout.PREFERRED
SIZE, 140, javax.swing.GroupLayout.PREFERRED SIZE))
                .addGap(28, 28, 28)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayo
ut.Alignment.LEADING)
                    .addComponent(BTN4, javax.swing.GroupLayout.PREFERRED
SIZE, 140, javax.swing.GroupLayout.PREFERRED SIZE)
                    .addComponent(BTN5, javax.swing.GroupLayout.PREFERRED
SIZE, 140, javax.swing.GroupLayout.PREFERRED SIZE)
                    .addComponent(BTN6, javax.swing.GroupLayout.PREFERRED
SIZE, 140, javax.swing.GroupLayout.PREFERRED SIZE))
                .addGap(26, 26, 26)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayo
ut.Alignment.LEADING)
                    .addComponent(BTN7, javax.swing.GroupLayout.PREFERRED
SIZE, 140, javax.swing.GroupLayout.PREFERRED SIZE)
                    .addComponent(BTN8, javax.swing.GroupLayout.PREFERRED
SIZE, 140, javax.swing.GroupLayout.PREFERRED SIZE)
                    .addComponent(BTN9, javax.swing.GroupLayout.PREFERRED
SIZE, 140, javax.swing.GroupLayout.PREFERRED SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacemen
t.UNRELATED)
                .addComponent(reset, javax.swing.GroupLayout.PREFERRED SIZ
E, 66, javax.swing.GroupLayout.PREFERRED SIZE)
```

```
.addGap(23, 23, 23))
    );
    pack();
}// </editor-fold>
private void BTN1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if(BTN1.getText()!="X"&&BTN1.getText()!="0")
    if(count%2==1)
        BTN1.setText("X");
        count++;
    }
    else
        BTN1.setText("0");
        count++;
}
private void BTN2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if(BTN2.getText()!="X"&&BTN2.getText()!="0")
    {
    if(count%2==1)
        BTN2.setText("X");
        count++;
        return;
    else
        BTN2.setText("0");
        count++;
```

```
}
}
private void BTN3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
   if(BTN3.getText()!="X"&&BTN3.getText()!="0")
    if(count%2==1)
        BTN3.setText("X");
        count++;
    }
    else
        BTN3.setText("0");
        count++;
}
private void BTN4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if(BTN4.getText()!="X"&&BTN4.getText()!="0")
    if(count%2==1)
        BTN4.setText("X");
        count++;
    }
    else
        BTN4.setText("0");
        count++;
    }
}
private void BTN5ActionPerformed(java.awt.event.ActionEvent evt) {
```

```
// TODO add your handling code here:
    if(BTN5.getText()!="X"&&BTN5.getText()!="0")
    if(count%2==1)
        BTN5.setText("X");
        count++;
    }
    else
        BTN5.setText("0");
        count++;
    }
    }
}
private void BTN6ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if(BTN6.getText()!="X"&&BTN6.getText()!="0")
    if(count%2==1)
        BTN6.setText("X");
        count++;
    }
    else
        BTN6.setText("0");
        count++;
}
private void BTN7ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if(BTN7.getText()!="X"&&BTN7.getText()!="0")
    if(count%2==1)
```

```
BTN7.setText("X");
        count++;
    }
    else
    {
        BTN7.setText("0");
        count++;
    }
}
private void BTN8ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if(BTN8.getText()!="X"&&BTN8.getText()!="0")
    {
    if(count%2==1)
        BTN8.setText("X");
        count++;
    }
    else
        BTN8.setText("0");
        count++;
}
private void BTN9ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if(BTN9.getText()!="X"&&BTN9.getText()!="0")
    if(count%2==1)
        BTN9.setText("X");
        count++;
```

```
else
            BTN9.setText("0");
            count++;
    }
    private void resetActionPerformed(java.awt.event.ActionEvent evt) {
BTN1.setText(" ");
                          // TODO add your handling code here:
BTN2.setText(" ");
BTN3.setText(" ");
BTN4.setText(" ");
BTN5.setText(" ");
BTN6.setText(" ");
BTN7.setText(" ");
BTN8.setText(" ");
BTN9.setText(" ");
    }
     * @param args the command line arguments
    public static void main(String args[]) {
       /* Set the Nimbus look and feel */
        //<editor-
fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
        /* If Nimbus (introduced in Java SE 6) is not available, stay with
 the default look and feel.
         * For details see http://download.oracle.com/javase/tutorial/uisw
ing/lookandfeel/plaf.html
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.
UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName
());
                    break;
        } catch (ClassNotFoundException ex) {
```

```
java.util.logging.Logger.getLogger(Tic tac toe.class.getName()
).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(Tic tac toe.class.getName()
).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(Tic tac toe.class.getName()
).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(Tic_tac_toe.class.getName()
).log(java.util.logging.Level.SEVERE, null, ex);
        //</editor-fold>
        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Tic tac toe().setVisible(true);
            }
        });
int count=1;
   // Variables declaration - do not modify
   private javax.swing.JButton BTN1;
    private javax.swing.JButton BTN2;
   private javax.swing.JButton BTN3;
    private javax.swing.JButton BTN4;
    private javax.swing.JButton BTN5;
    private javax.swing.JButton BTN6;
    private javax.swing.JButton BTN7;
   private javax.swing.JButton BTN8;
   private javax.swing.JButton BTN9;
   private javax.swing.JLabel jLabel1;
   private javax.swing.JPanel jPanel1;
   private javax.swing.JButton reset;
    // End of variables declaration
```

Output Screenshots:





