

**KP14603 OBJECT ORIENTED PROGRAMMING** 

SEMESTER II

SESSION 2019/2020

**ASSIGNMENT 2 INDIVIDUAL** 

CALCULATOR

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### **INTRODUCTION**

Here by using basic tools of Netbeans for Java (IDE 8.2) I have made calculator. For understanding the basic function of the GUI and programming I have made the calculator which will perform the basic mathematical functions like addition, multiplication, subtraction, division and some more. The aim of this project is to understand object oriented programming and jFrame. The Calculator application performs basic mathematical operation. When the user operate the application calls the corresponding class and the user can perform various mathematical operations provided in the class.

## **JAVA CODE**

```
/*
* To change this license header, choose License Headers in Project
Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package Calculation;
/**
* @author User
*/
public class Calaculator extends javax.swing.JFrame {
  double firstnum;
  double secondnum;
  double result;
  String operations;
  public Calaculator() {
    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 always

```
* regenerated by the Form Editor.
  */
  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated
Code">//GEN-BEGIN:initComponents
  private void initComponents() {
    jtxtDisplay = new javax.swing.JTextField();
    jBtn1 = new javax.swing.JButton();
    jBtn2 = new javax.swing.JButton();
    jBtn3 = new javax.swing.JButton();
    jBtn4 = new javax.swing.JButton();
    jBtn5 = new javax.swing.JButton();
    jBtn6 = new javax.swing.JButton();
    ¡Btn7 = new javax.swing.JButton();
    jBtn8 = new javax.swing.JButton();
    jBtn9 = new javax.swing.JButton();
    jBtn10 = new javax.swing.JButton();
    jBtn11 = new javax.swing.JButton();
    ¡Btn12 = new javax.swing.JButton();
    jBtn13 = new javax.swing.JButton();
    ¡Btn14 = new javax.swing.JButton();
```

jBtn15 = new javax.swing.JButton();

```
jBtn16 = new javax.swing.JButton();
    jBtn17 = new javax.swing.JButton();
    jBtn18 = new javax.swing.JButton();
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT ON CLOSE)
    jtxtDisplay.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    jtxtDisplay.setHorizontalAlignment(javax.swing.JTextField.RIGHT);
    jBtn1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    ¡Btn1.setText("1");
    jBtn1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        ¡Btn1ActionPerformed(evt);
      }
    });
    jBtn2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    jBtn2.setText("2");
    jBtn2.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        ¡Btn2ActionPerformed(evt);
      }
    });
```

```
jBtn3.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
¡Btn3.setText("3");
jBtn3.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ¡Btn3ActionPerformed(evt);
  }
});
jBtn4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jBtn4.setText("4");
jBtn4.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    jBtn4ActionPerformed(evt);
  }
});
jBtn5.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jBtn5.setText("5");
jBtn5.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    jBtn5ActionPerformed(evt);
  }
});
jBtn6.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
¡Btn6.setText("6");
```

```
jBtn6.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ¡Btn6ActionPerformed(evt);
  }
});
jBtn7.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
¡Btn7.setText("7");
jBtn7.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    iBtn7ActionPerformed(evt);
  }
});
jBtn8.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
¡Btn8.setText("8");
jBtn8.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ¡Btn8ActionPerformed(evt);
  }
});
jBtn9.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
¡Btn9.setText("9");
jBtn9.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
jBtn9ActionPerformed(evt);
  }
});
jBtn10.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jBtn10.setText("0");
jBtn10.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ¡Btn10ActionPerformed(evt);
  }
});
jBtn11.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
¡Btn11.setText("+");
jBtn11.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ¡Btn11ActionPerformed(evt);
  }
});
jBtn12.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jBtn12.setText("-");
jBtn12.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ¡Btn12ActionPerformed(evt);
  }
```

```
});
jBtn13.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jBtn13.setText("/");
jBtn13.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ¡Btn13ActionPerformed(evt);
  }
});
jBtn14.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
¡Btn14.setText("*");
jBtn14.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    jBtn14ActionPerformed(evt);
  }
});
jBtn15.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jBtn15.setText("#");
jBtn15.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ¡Btn15ActionPerformed(evt);
  }
});
```

```
jBtn16.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    ¡Btn16.setText(".");
    jBtn16.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        ¡Btn16ActionPerformed(evt);
      }
    });
    jBtn17.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    jBtn17.setText("C");
    jBtn17.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jBtn17ActionPerformed(evt);
      }
    });
    jBtn18.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    jBtn18.setText("=");
    jBtn18.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jBtn18ActionPerformed(evt);
      }
    });
    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
```

### layout.setHorizontalGroup(

javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

```
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        .addContainerGap()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.TRAILING, false)
          .addComponent(jtxtDisplay)
          .addGroup(layout.createSequentialGroup()
            .addComponent(jBtn1,
javax.swing.GroupLayout.PREFERRED SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(jBtn2,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED SIZE)
            .addGap(18, 18, 18)
            .addComponent(jBtn3,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(jBtn4,
javax.swing.GroupLayout.PREFERRED SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE))
          .addGroup(layout.createSequentialGroup()
            .addComponent(jBtn5,
javax.swing.GroupLayout.PREFERRED SIZE, 50,
```

.addComponent(jBtn6, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jBtn7, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jBtn8, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jBtn9, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jBtn10, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jBtn11, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jBtn12, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignmen t.TRAILING, false)

```
.addComponent(jBtn17,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
              .addGroup(layout.createSequentialGroup()
                .addComponent(jBtn13,
javax.swing.GroupLayout.PREFERRED SIZE, 50,
javax.swing.GroupLayout.PREFERRED SIZE)
                .addGap(18, 18, 18)
                .addComponent(jBtn14,
javax.swing.GroupLayout.PREFERRED SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.LEADING)
              .addGroup(layout.createSequentialGroup()
                .addComponent(jBtn15,
javax.swing.GroupLayout.PREFERRED SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jBtn16,
javax.swing.GroupLayout.PREFERRED SIZE, 50,
javax.swing.GroupLayout.PREFERRED SIZE)
                .addGap(0, 0, Short.MAX VALUE))
              .addComponent(jBtn18,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE))))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT SIZE,
Short.MAX VALUE))
    );
```

```
layout.setVerticalGroup(
```

```
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jtxtDisplay,
javax.swing.GroupLayout.PREFERRED SIZE, 51,
javax.swing.GroupLayout.PREFERRED SIZE)
. add Preferred Gap (javax.swing. Layout Style. Component Placement. UNRELA) \\
TED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.BASELINE)
          .addComponent(jBtn1,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addComponent(jBtn2,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addComponent(jBtn3,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE)
          .addComponent(jBtn4,
javax.swing.GroupLayout.PREFERRED_SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELA
TED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.BASELINE)
```

```
.addComponent(jBtn5,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addComponent(jBtn6,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE)
          .addComponent(jBtn7,
javax.swing.GroupLayout.PREFERRED_SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE)
          .addComponent(jBtn8,
javax.swing.GroupLayout.PREFERRED_SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELA
TED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.BASELINE)
          .addComponent(jBtn9,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addComponent(jBtn10,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addComponent(jBtn11,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE)
          .addComponent(jBtn12,
javax.swing.GroupLayout.PREFERRED_SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELA
```

TED)

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.BASELINE)
          .addComponent(jBtn13,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addComponent(jBtn14,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE)
          .addComponent(jBtn15,
javax.swing.GroupLayout.PREFERRED_SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addComponent(jBtn16,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELA
TED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.BASELINE)
          .addComponent(jBtn18,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addComponent(jBtn17,
javax.swing.GroupLayout.PREFERRED SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT SIZE,
Short.MAX_VALUE))
    );
    pack();
```

```
}// </editor-fold>//GEN-END:initComponents
  private void jBtn2ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event iBtn2ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn1.getText();
    jtxtDisplay.setText(Enternumber);
  }//GEN-LAST:event jBtn2ActionPerformed
  private void jBtn1ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn1ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn2.getText();
    jtxtDisplay.setText(Enternumber);
  }//GEN-LAST:event jBtn1ActionPerformed
  private void jBtn3ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn3ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn3.getText();
    jtxtDisplay.setText(Enternumber);
  }//GEN-LAST:event jBtn3ActionPerformed
  private void jBtn4ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn4ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn4.getText();
    jtxtDisplay.setText(Enternumber);
```

```
}//GEN-LAST:event_jBtn4ActionPerformed
  private void jBtn5ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn5ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn5.getText();
    jtxtDisplay.setText(Enternumber);
  }//GEN-LAST:event jBtn5ActionPerformed
  private void jBtn6ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn6ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn6.getText();
    jtxtDisplay.setText(Enternumber);
  }//GEN-LAST:event jBtn6ActionPerformed
  private void jBtn7ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jBtn7ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn7.getText();
    jtxtDisplay.setText(Enternumber);
  }//GEN-LAST:event jBtn7ActionPerformed
  private void jBtn8ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn8ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn8.getText();
    jtxtDisplay.setText(Enternumber);
```

```
}//GEN-LAST:event_jBtn8ActionPerformed
  private void jBtn9ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event iBtn9ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn9.getText();
    jtxtDisplay.setText(Enternumber);
  }//GEN-LAST:event jBtn9ActionPerformed
  private void jBtn10ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn10ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn10.getText();
    jtxtDisplay.setText(Enternumber);
  }//GEN-LAST:event jBtn10ActionPerformed
  private void jBtn11ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn11ActionPerformed
    firstnum = Double.parseDouble(jtxtDisplay.getText());
    jtxtDisplay.setText("");
    operations="+";
  }//GEN-LAST:event_jBtn11ActionPerformed
  private void jBtn12ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn12ActionPerformed
    firstnum = Double.parseDouble(jtxtDisplay.getText());
```

```
jtxtDisplay.setText("");
    operations="-";
  }//GEN-LAST:event jBtn12ActionPerformed
  private void jBtn13ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn13ActionPerformed
    firstnum = Double.parseDouble(jtxtDisplay.getText());
    jtxtDisplay.setText("");
    operations="/";
  }//GEN-LAST:event_jBtn13ActionPerformed
  private void jBtn14ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jBtn14ActionPerformed
    firstnum = Double.parseDouble(jtxtDisplay.getText());
    itxtDisplay.setText("");
    operations="*";
  }//GEN-LAST:event_jBtn14ActionPerformed
  private void jBtn15ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn15ActionPerformed
   double ops =
Double.parseDouble(String.valueOf(jtxtDisplay.getText()));
   ops = ops * (-1);
   jtxtDisplay.setText(String.valueOf(ops));
  }//GEN-LAST:event jBtn15ActionPerformed
```

```
private void jBtn16ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jBtn16ActionPerformed
    String Enternumber = jtxtDisplay.getText() + jBtn16.getText();
    jtxtDisplay.setText(Enternumber);
  }//GEN-LAST:event_jBtn16ActionPerformed
 private void jBtn18ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn18ActionPerformed
   String answer;
   secondnum = Double.parseDouble(jtxtDisplay.getText());
   if (operations == "+")
   {
     result = firstnum + secondnum;
     answer = String.format("%.0f",result);
     jtxtDisplay.setText(answer);
   }
   else if (operations == "-")
   {
     result = firstnum * secondnum;
     answer = String.format("%.0f",result);
     jtxtDisplay.setText(answer);
   }
    else if (operations == "*")
   {
```

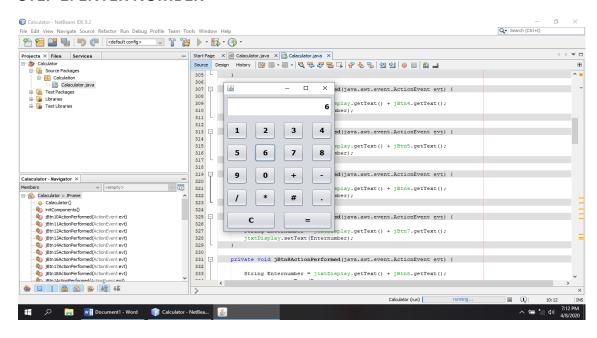
```
result = firstnum * secondnum;
     answer = String.format("%.0f",result);
     jtxtDisplay.setText(answer);
   }
    else if (operations == "/")
   {
     result = firstnum / secondnum;
     answer = String.format("%.0f",result);
     jtxtDisplay.setText(answer);
   }
    else if (operations == "%")
   {
     result = firstnum % secondnum;
     answer = String.format("%.0f",result);
     jtxtDisplay.setText(answer);
   }
  }//GEN-LAST:event jBtn18ActionPerformed
  private void jBtn17ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event jBtn17ActionPerformed
    jtxtDisplay.setText("");
  }//GEN-LAST:event jBtn17ActionPerformed
  /**
  * @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/uiswing/lookandfeel/plaf.ht
ml
     */
    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(Calaculator.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(Calaculator.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(Calaculator.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
```

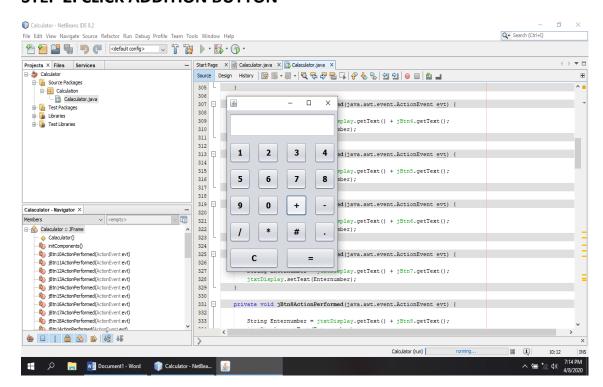
```
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(Calaculator.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
    }
    //</editor-fold>
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
      public void run() {
         new Calaculator().setVisible(true);
      }
    });
  }
  // Variables declaration - do not modify//GEN-BEGIN:variables
  private javax.swing.JButton jBtn1;
  private javax.swing.JButton jBtn10;
  private javax.swing.JButton jBtn11;
  private javax.swing.JButton jBtn12;
  private javax.swing.JButton jBtn13;
  private javax.swing.JButton jBtn14;
  private javax.swing.JButton jBtn15;
  private javax.swing.JButton jBtn16;
  private javax.swing.JButton jBtn17;
  private javax.swing.JButton jBtn18;
  private javax.swing.JButton jBtn2;
```

```
private javax.swing.JButton jBtn3;
private javax.swing.JButton jBtn4;
private javax.swing.JButton jBtn5;
private javax.swing.JButton jBtn6;
private javax.swing.JButton jBtn7;
private javax.swing.JButton jBtn8;
private javax.swing.JButton jBtn9;
private javax.swing.JButton jBtn9;
private javax.swing.JTextField jtxtDisplay;
// End of variables declaration//GEN-END:variables
}
```

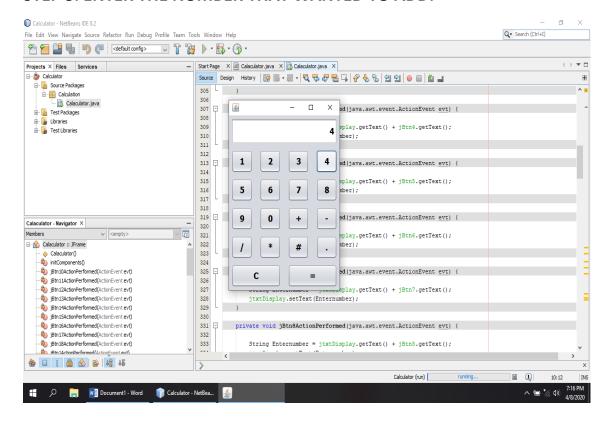
#### **STEP 1. ENTER NUMBER**



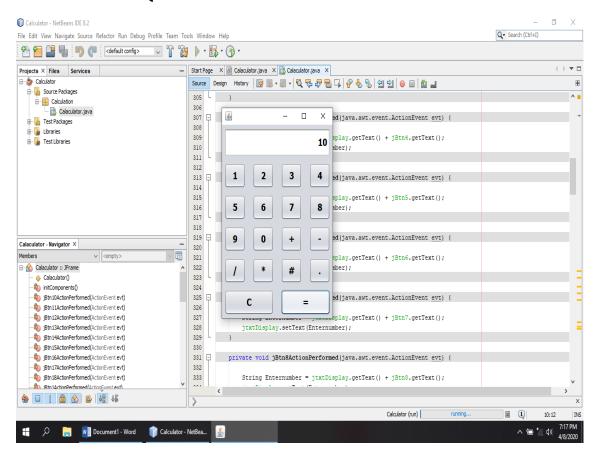
#### STEP 2. CLICK ADDITION BUTTON



#### STEP 3. ENTER THE NUMBER THAT WANTED TO ADD.



#### STEP 4. ENTER EQUALS TO GET CORRECT ANSWER.



# **CONCLUSION**

In conclusion, this is a very simple calculator project since this is my 1<sup>st</sup> time making GUI. However, making this project is a good way to expand my knowledge in java. Last but not least, I will keep improve this calculator system if there have any issues from other user.