**JAVA CALCULATOR**

**A Project Work Report**

*Submitted in the partial fulfilment for the award of the degree of*

**BACHELOROF** E**NGINEERING**

**IN**

**INTERNET OF THINGS**

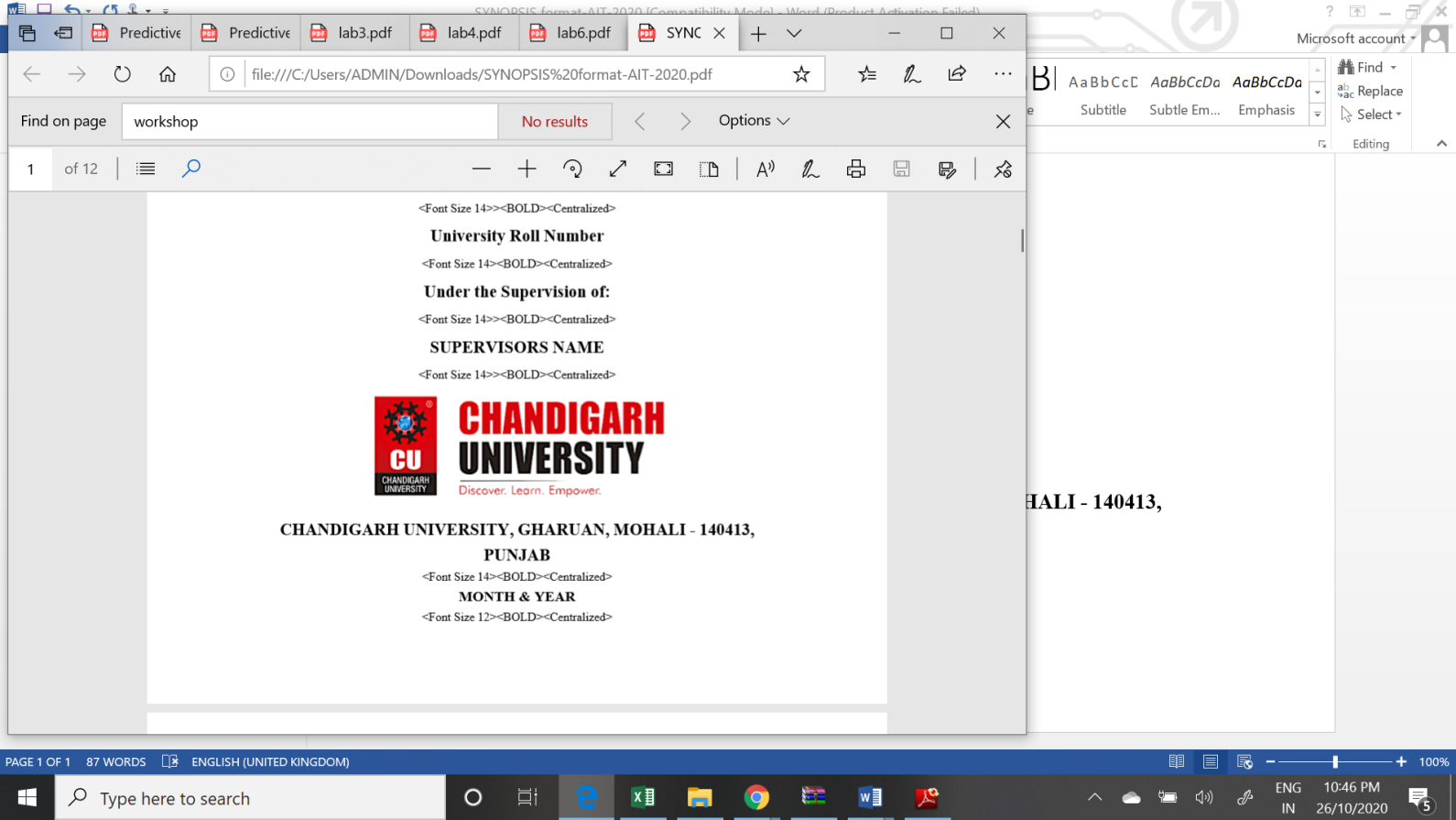
**Submitted by:**

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**19BCS4658**

**Under the Supervision of:**

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**CHANDIGARHUNIVERSITY, GHARUAN ,MOHALI-140413,PUNJAB**

**December, 2020**

Name and signature of student(s): PRATEEK KUMAR VERMA

Name and signature of Supervisor

# 

# PROJECT COMPLETION CERTIFICATE

JAVA CALCULATOR

This is to certify that the \_PRATEEK KUMAR VERMA\_ has successfully completed the project work titled“ JAVA CALCULATOR” *Submitted in the partial fulfilment for the award of the degree of* **BACHELOROF** E**NGINEERING IN INTERNET OF THINGS.**

This project is the record of authentic work carried out during the academic year 2020.

**\_\_DR. DURGESH KUMAR SRIVASTAVA \_**

Project Guide

**Date: 08-12-2020**

# DECLARATION

I the undersigned solemnly declare that the project report is based on my own work carried out during the course of our study under the supervision of **DR. DURGESH KUMAR SRIVASTAVA**. I assert the statements made and conclusions drawn are an outcome of my work. I further certify that the work contained in the report is original and has been done by me under the general supervision of my supervisor.

II. The work has not been submitted to any other Institution for any other degree/diploma/certificate in this university or any other University of India or abroad.

III. We have followed the guidelines provided by the university in writing the report.

IV. Whenever we have used materials (data, theoretical analysis, and text) from other sources, we have given due credit to them in the text of the report and giving their details in the references.

PRATEEK KUMAR VERMA

19BCS4658

# ACKNOWLEDGEMENT

I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. I would like to extend my sincere thanks to all of them.

I am highly indebted to **DR. DURGESH KUMAR SRIVASTAVA** for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project.

I would like to express my gratitude towards my parents and my department for their kind co-operation and encouragement which help me in completion of this project.

THANKS AGAIN TO ALL WHO HELPED

Chapter 1: Introduction to project

Chapter 2: Project Requirements (Software/Hardware requirements)

Chapter 3: Implementation Details (Algorithm, code)

Chapter 4: Output Analysis (screenshots)

Chapter 1: Introduction to project

IN THIS PROJECT I HAVE MADE A CALCULATOR USING JAVA.AS WE KNOW THAT CALCULATOR IS A DEVICE used for making mathematical calculations, in particular a small electronic device with a keyboard and a visual display.

WITH THE HELP OF THIS CALCULATOR WE WILL BE ABLE TO DO SOME BASIC MATHEMATICAL OPERAATIONS SUCH AS ADDITION, MULTIPLICATION , SUBTRACTION AND DIVISION.

Chapter 2: Project Requirements

* **SOFTWARE REQUIREMENTS**
* NETBEANS IDE
* JAVA
* **HARDWARE REQUIREMENTS**
* LAPTOP/PC

Chapter 3: Implementation Details

* ALGORITHM

## Create Your Class Structure

## Declare Inputs

## Build the User Input Method

## Declare Output Value

## Build Our Switch Statement

## Display Our Output

## Compile Our Program

## Run the Code

* Source code

public class JavaCalculator extends javax.swing.JFrame {

double firstNum;

double secondNum;

double total;

double plusminus;

int plusClick;

int minusClick;

int multiplyClick;

int devideClick;

int decimalClick;

public JavaCalculator() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jButton9 = new javax.swing.JButton();

jPanel1 = new javax.swing.JPanel();

display = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

jButton6 = new javax.swing.JButton();

jButton7 = new javax.swing.JButton();

jButton8 = new javax.swing.JButton();

jButton10 = new javax.swing.JButton();

clear = new javax.swing.JButton();

decimal = new javax.swing.JButton();

plus = new javax.swing.JButton();

minus = new javax.swing.JButton();

multiply = new javax.swing.JButton();

divide = new javax.swing.JButton();

posneg = new javax.swing.JButton();

equals = new javax.swing.JButton();

Button9 = new javax.swing.JButton();

jButton9.setText("jButton1");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

setTitle("Norle Calculator");

setBackground(new java.awt.Color(102, 102, 102));

setResizable(false);

jPanel1.setBackground(new java.awt.Color(204, 204, 204));

display.setEditable(false);

display.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

display.setBorder(javax.swing.BorderFactory.createEtchedBorder());

jButton1.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

jButton1.setText("1");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

jButton2.setText("2");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

jButton3.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

jButton3.setText("3");

jButton3.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton3ActionPerformed(evt);

}

});

jButton4.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

jButton4.setText("4");

jButton4.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton4ActionPerformed(evt);

}

});

jButton5.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

jButton5.setText("5");

jButton5.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton5ActionPerformed(evt);

}

});

jButton6.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

jButton6.setText("6");

jButton6.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton6ActionPerformed(evt);

}

});

jButton7.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

jButton7.setText("7");

jButton7.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton7ActionPerformed(evt);

}

});

jButton8.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

jButton8.setText("8");

jButton8.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton8ActionPerformed(evt);

}

});

jButton10.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

jButton10.setText("0");

jButton10.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton10ActionPerformed(evt);

}

});

clear.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

clear.setText("C");

clear.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

clearActionPerformed(evt);

}

});

decimal.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

decimal.setText(".");

decimal.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

decimalActionPerformed(evt);

}

});

plus.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

plus.setText("+");

plus.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

plusActionPerformed(evt);

}

});

minus.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

minus.setText("-");

minus.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

minusActionPerformed(evt);

}

});

multiply.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

multiply.setText("\*");

multiply.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

multiplyActionPerformed(evt);

}

});

divide.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

divide.setText("/");

divide.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

divideActionPerformed(evt);

}

});

posneg.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

posneg.setText("+/-");

posneg.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

posnegActionPerformed(evt);

}

});

equals.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

equals.setText("=");

equals.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

equalsActionPerformed(evt);

}

});

Button9.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

Button9.setText("9");

Button9.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

Button9ActionPerformed(evt);

}

});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(display, javax.swing.GroupLayout.DEFAULT\_SIZE, 256, Short.MAX\_VALUE)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(10, 10, 10)

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(10, 10, 10)

.addComponent(clear, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(posneg, javax.swing.GroupLayout.PREFERRED\_SIZE, 124, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(equals, javax.swing.GroupLayout.DEFAULT\_SIZE, 122, Short.MAX\_VALUE)

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(Button9, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(multiply, javax.swing.GroupLayout.DEFAULT\_SIZE, 55, Short.MAX\_VALUE))

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(decimal, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(divide, javax.swing.GroupLayout.DEFAULT\_SIZE, 55, Short.MAX\_VALUE))))

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

.addComponent(jButton1, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton4, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, 57, Short.MAX\_VALUE))

.addGap(10, 10, 10)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(plus, javax.swing.GroupLayout.DEFAULT\_SIZE, 55, Short.MAX\_VALUE)

.addComponent(minus, javax.swing.GroupLayout.DEFAULT\_SIZE, 55, Short.MAX\_VALUE))))

.addContainerGap())

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addComponent(display, javax.swing.GroupLayout.PREFERRED\_SIZE, 29, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(plus, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(minus, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Button9, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(multiply, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(9, 9, 9)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(clear, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(decimal, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(divide, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(equals, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(posneg, javax.swing.GroupLayout.DEFAULT\_SIZE, 40, Short.MAX\_VALUE))

.addContainerGap(12, Short.MAX\_VALUE))

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

display.setText(display.getText()+jButton1.getText());

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

display.setText(display.getText()+jButton2.getText());

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

display.setText(display.getText()+jButton3.getText());

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

display.setText(display.getText()+jButton4.getText());

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

display.setText(display.getText()+jButton5.getText());

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

display.setText(display.getText()+jButton6.getText());

}

private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {

display.setText(display.getText()+jButton7.getText());

}

private void jButton8ActionPerformed(java.awt.event.ActionEvent evt) {

display.setText(display.getText()+jButton8.getText());

}

private void Button9ActionPerformed(java.awt.event.ActionEvent evt) {

display.setText(display.getText()+Button9.getText());

}

private void jButton10ActionPerformed(java.awt.event.ActionEvent evt) {

display.setText(display.getText()+jButton10.getText());

}

private void decimalActionPerformed(java.awt.event.ActionEvent evt) {

if(decimalClick==0){

display.setText(display.getText()+decimal.getText());

decimalClick=1;

}

}

private void clearActionPerformed(java.awt.event.ActionEvent evt) {

display.setText("");

decimalClick=0;

}

private void posnegActionPerformed(java.awt.event.ActionEvent evt) {

plusminus=(Double.parseDouble(String.valueOf(display.getText())));

plusminus=plusminus\*(-1);

display.setText(String.valueOf(plusminus));

}

private void plusActionPerformed(java.awt.event.ActionEvent evt) {

firstNum=(Double.parseDouble(String.valueOf(display.getText())));

display.setText("");

plusClick=1;

decimalClick=0;

}

private void minusActionPerformed(java.awt.event.ActionEvent evt) {

firstNum=(Double.parseDouble(String.valueOf(display.getText())));

display.setText("");

minusClick=1;

decimalClick=0;

}

private void multiplyActionPerformed(java.awt.event.ActionEvent evt) {

firstNum=(Double.parseDouble(String.valueOf(display.getText())));

display.setText("");

multiplyClick=1;

decimalClick=0;

}

private void divideActionPerformed(java.awt.event.ActionEvent evt) {

firstNum=(Double.parseDouble(String.valueOf(display.getText())));

display.setText("");

devideClick=1;

decimalClick=0;

}

private void equalsActionPerformed(java.awt.event.ActionEvent evt) {

secondNum=(Double.parseDouble(String.valueOf(display.getText())));

if(plusClick>0){

total = firstNum + secondNum;

display.setText(String.valueOf(total));

firstNum = 0;

secondNum = 0;

plusClick = 0;

}

if(minusClick>0){

total = firstNum - secondNum;

display.setText(String.valueOf(total));

firstNum = 0;

secondNum = 0;

minusClick = 0;

}

if(multiplyClick>0){

total = firstNum \* secondNum;

display.setText(String.valueOf(total));

firstNum = 0;

secondNum = 0;

multiplyClick = 0;

}

if(devideClick>0){

total = firstNum / secondNum;

display.setText(String.valueOf(total));

firstNum = 0;

secondNum = 0;

devideClick = 0;

}

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new JavaCalculator().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton Button9;

private javax.swing.JButton clear;

private javax.swing.JButton decimal;

private javax.swing.JTextField display;

private javax.swing.JButton divide;

private javax.swing.JButton equals;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton10;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JPanel jPanel1;

private javax.swing.JButton minus;

private javax.swing.JButton multiply;

private javax.swing.JButton plus;

private javax.swing.JButton posneg;

// End of variables declaration

}

Chapter 4: Output Analysis

