** A**

**PROJECT ON**

**“CALCULATOR”**

Submitted to partial fulfillment of the requirements

For the award of the

“BACHELOR OF COMPUTER APPLICATION”

BCA Final year (2021-2022)

C.C.S. University, Meerut

Submitted To: Submitted By:

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Tarik

Tushar

**ACKNOWLEDGEMENT**

***We are pleased to submit this report “CALCULATOR”. We have prepared this project with the help of our project leader and colleagues. We are very thankful to them for their support in making this report. We are grateful to all those people who extended their support and completion of my project.***

***We are deeply indebted to Mr.Rahul Sharma (incharge) S.F.C and head of the Department of Computer Application and Business Administration for providing us laboratory facilities to work in D.A.V. College, Muzaffarnagar.***

***We express our profound thankfulness to Mrs. Vishalini (lecturer) for their excellent guidance and support throught the project. We would also like to express our gratitude towards all faculty members without whom this project would not have been possible. They have been a motivator & source of inspiration for me to carry out the necessary proceedings for the project to be completed successfully.***

***We again place on record my gratitude to all those who were instrumental in getting this project work and report completed. We owe our sincere thanks to all faculty members of their supports, understanding and manifold help in every possible way.***

***Tarranum***

***Tarik***

***Tushar***

***CONTENTS***

1. **Front Page**
2. **Acknowledgement**
3. **Contents**
4. **Preface**
5. **Software and Hardware Requirements**
6. **Frontend And Backend**
7. **Introduction To JAVA**
8. **Introduction About The Project**
9. **Snaps of Output**
10. **Coding**
11. **Conclusion**

***PREFACE***

***We hereby declare that the work which is being presented in the project entitled “CALCULATOR” is an authentic work carried out by us under guidance of Mrs. Vishalini (lecturer) D.A.V.(P.G.) College, Muzaffarnagar.***

***This project will work as reference to use the software “Train Reservation”. We had tried our best to keep it error free still. Perfection cannot be claim by humans.***

***Tarannum***

***Tarik***

***Tushar***

***SOFTWARE AND HARDWARE REQUIRED***

**FRONT END : JAVA NetBeans 7.3**

**PLATFORM : WINDOW-10**

**PROCESSOR : Intel Core i3**

**OPERATING SYSTEM : Microsoft Window 10**

**JAVA NetBeans : 7.3**

**HARD DISK : 4GB**

**FRONTEND AND BACKEND**

**FRONTEND:- JAVA NETBEANS 7.3**

**BACKEND:- NO USE OF BACKEND**

**INTRODUCTION TO JAVA**

**Java is a small, simple, safe, object oriented,interpreted dynamically optimized,byte coded architectural,garbage collected, multithreaded programming language with a strongly typed exception-handling for writing distribute and dynamically extensible programs.**

**Java is an object oriented programming language. Java is a high-level language, third generation language like C,FORTRAN, small talk, Pearl and many others. You can use java to write computer applications that crunch numbers, process words, play games, store data or do any of the thousands of other things computer software can do.**

**Special programs called applets that can be downloaded from the internet and played safely within a web browser. Java supports this application and the follow features make it one of the best programming language.**

**FEATURES OF JAVA:**

1. **It is simple.**
2. **Object oriented**
3. **User friendly**
4. **Dynamic**
5. **Supports multithreading.**
6. **Platform independent**
7. **Secure**
8. **Robust**
9. **Supports internet programming**

**10.Distributed**

**Java is a programming language was developed by James Gostling at Sun Microsystems in the year 1991, later acquired by Oracle Corporation.**

**It is used for:**

* **Mobile applications**
* **Desktop applications**
* **Web applications**
* **Web servers**
* **Application servers**
* **Games**

**Java works on different platforms like - Windows, Mac, Linux). It is one of the most popular programming language. It is easy to learn and simple to use. It is open-source free. Java has a huge community supports. Java is an object orient which gives a clear structure to programs and allows code to be reused. As java is close to C++ and C# it makes it easy for programmers to switch to java or vice versa.**

**INTRODUCTION ABOUT PROJECT**

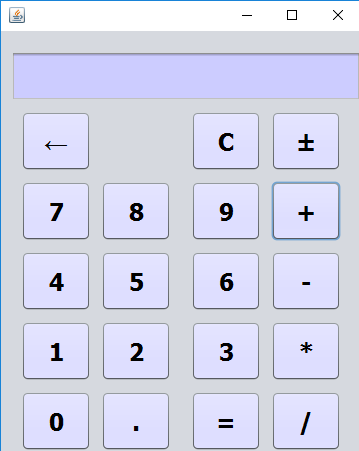
**This project is a “CALCULATOR”. This information developed in JAVA platform and it is familiar with and which we use quite often on a daily basis.**

**It is a process of gathering and interpreting facts, problems and the information is the recommend improvements on the system. It is a problem solving activity that requires the intensive communication between the system users and system developers. System analysis or study is an important phase of any system development process.**

**System analysis or study is an important phase of any system development process. The system is studied to the minutest detail and analyzed. The system analyst plays the role of the interrogator and dwells deep into the working of the present system. The system is viewed as a whole and the input to the system are identified. The outputs from the system organizations are traced to the various processes.**

**System analysis is concerned with becoming aware of the problem, identifying the relevant and decisional variables, analyzing and the synthesize the various factors.**

**Class calculator calculates basic operations namely, addition, subtraction, multiplication and division of two numbers. The class provide option to user to enter first number to be calculated. Then the operation to be performed and then, the second number to be used for calculation. The input is receiving by java class class calculator creates an object of class Calculator, by calling its constructor by passing three arguments. After the creation of object of class Calculate, doCalculation() method is called followed by getresult() method, which presents the result of calculation to the user.**

****

/\*

\* 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 Calculator;

/\*\*

\*

\* @author WINDOWS 10

\*/

public class Calculaor1 extends javax.swing.JFrame {

/\*\*

\* Creates new form Calculaor1

\*/

double NumEnter1;

double NumEnter2;

double Result;

String op;

public Calculaor1() {

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")

private void EnterNumbers(String q)

{

String Nums = jtxtResult.getText() + q;

jtxtResult.setText(Nums);

}

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

private void initComponents() {

jtxtResult = new javax.swing.JTextField();

jbtnBS = new javax.swing.JButton();

jbtnC = new javax.swing.JButton();

jbtnPM = new javax.swing.JButton();

jbtnDigit7 = new javax.swing.JButton();

jbtnDigit8 = new javax.swing.JButton();

jbtnDigit9 = new javax.swing.JButton();

jbtnPlus = new javax.swing.JButton();

jbtnDigit5 = new javax.swing.JButton();

jbtnDigit4 = new javax.swing.JButton();

jbtnDigit6 = new javax.swing.JButton();

jbtnMinus = new javax.swing.JButton();

jbtnDigit1 = new javax.swing.JButton();

jbtnDigit2 = new javax.swing.JButton();

jbtnDigit3 = new javax.swing.JButton();

jbtnMul = new javax.swing.JButton();

jbtnDot = new javax.swing.JButton();

jbtnDigit0 = new javax.swing.JButton();

jbtnEquall = new javax.swing.JButton();

jbtnDiv = new javax.swing.JButton();

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

setBackground(new java.awt.Color(153, 204, 255));

getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jtxtResult.setBackground(new java.awt.Color(204, 204, 255));

jtxtResult.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jtxtResult.setHorizontalAlignment(javax.swing.JTextField.CENTER);

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

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

jtxtResultActionPerformed(evt);

}

});

getContentPane().add(jtxtResult, new org.netbeans.lib.awtextra.AbsoluteConstraints(10, 20, 350, 50));

jbtnBS.setBackground(new java.awt.Color(204, 204, 255));

jbtnBS.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnBS.setText("?");

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

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

jbtnBSActionPerformed(evt);

}

});

getContentPane().add(jbtnBS, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 80, 70, 60));

jbtnC.setBackground(new java.awt.Color(204, 204, 255));

jbtnC.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnC.setText("C");

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

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

jbtnCActionPerformed(evt);

}

});

getContentPane().add(jbtnC, new org.netbeans.lib.awtextra.AbsoluteConstraints(190, 80, 70, 60));

jbtnPM.setBackground(new java.awt.Color(204, 204, 255));

jbtnPM.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnPM.setText("±");

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

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

jbtnPMActionPerformed(evt);

}

});

getContentPane().add(jbtnPM, new org.netbeans.lib.awtextra.AbsoluteConstraints(270, 80, 70, 60));

jbtnDigit7.setBackground(new java.awt.Color(204, 204, 255));

jbtnDigit7.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDigit7.setText("7");

jbtnDigit7.addActionListener(new java.awt.event.ActionListener() {

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

jbtnDigit7ActionPerformed(evt);

}

});

getContentPane().add(jbtnDigit7, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 150, 70, 60));

jbtnDigit8.setBackground(new java.awt.Color(204, 204, 255));

jbtnDigit8.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDigit8.setText("8");

jbtnDigit8.addActionListener(new java.awt.event.ActionListener() {

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

jbtnDigit8ActionPerformed(evt);

}

});

getContentPane().add(jbtnDigit8, new org.netbeans.lib.awtextra.AbsoluteConstraints(100, 150, 70, 60));

jbtnDigit9.setBackground(new java.awt.Color(204, 204, 255));

jbtnDigit9.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDigit9.setText("9");

jbtnDigit9.addActionListener(new java.awt.event.ActionListener() {

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

jbtnDigit9ActionPerformed(evt);

}

});

getContentPane().add(jbtnDigit9, new org.netbeans.lib.awtextra.AbsoluteConstraints(190, 150, 70, 60));

jbtnPlus.setBackground(new java.awt.Color(204, 204, 255));

jbtnPlus.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnPlus.setText("+");

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

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

jbtnPlusActionPerformed(evt);

}

});

getContentPane().add(jbtnPlus, new org.netbeans.lib.awtextra.AbsoluteConstraints(270, 150, 70, 60));

jbtnDigit5.setBackground(new java.awt.Color(204, 204, 255));

jbtnDigit5.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDigit5.setText("5");

jbtnDigit5.addActionListener(new java.awt.event.ActionListener() {

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

jbtnDigit5ActionPerformed(evt);

}

});

getContentPane().add(jbtnDigit5, new org.netbeans.lib.awtextra.AbsoluteConstraints(100, 220, 70, 60));

jbtnDigit4.setBackground(new java.awt.Color(204, 204, 255));

jbtnDigit4.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDigit4.setText("4");

jbtnDigit4.addActionListener(new java.awt.event.ActionListener() {

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

jbtnDigit4ActionPerformed(evt);

}

});

getContentPane().add(jbtnDigit4, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 220, 70, 60));

jbtnDigit6.setBackground(new java.awt.Color(204, 204, 255));

jbtnDigit6.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDigit6.setText("6");

jbtnDigit6.addActionListener(new java.awt.event.ActionListener() {

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

jbtnDigit6ActionPerformed(evt);

}

});

getContentPane().add(jbtnDigit6, new org.netbeans.lib.awtextra.AbsoluteConstraints(190, 220, 70, 60));

jbtnMinus.setBackground(new java.awt.Color(204, 204, 255));

jbtnMinus.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnMinus.setText("-");

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

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

jbtnMinusActionPerformed(evt);

}

});

getContentPane().add(jbtnMinus, new org.netbeans.lib.awtextra.AbsoluteConstraints(270, 220, 70, 60));

jbtnDigit1.setBackground(new java.awt.Color(204, 204, 255));

jbtnDigit1.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDigit1.setText("1");

jbtnDigit1.addActionListener(new java.awt.event.ActionListener() {

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

jbtnDigit1ActionPerformed(evt);

}

});

getContentPane().add(jbtnDigit1, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 290, 70, 60));

jbtnDigit2.setBackground(new java.awt.Color(204, 204, 255));

jbtnDigit2.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDigit2.setText("2");

jbtnDigit2.setToolTipText("");

jbtnDigit2.addActionListener(new java.awt.event.ActionListener() {

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

jbtnDigit2ActionPerformed(evt);

}

});

getContentPane().add(jbtnDigit2, new org.netbeans.lib.awtextra.AbsoluteConstraints(100, 290, 70, 60));

jbtnDigit3.setBackground(new java.awt.Color(204, 204, 255));

jbtnDigit3.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDigit3.setText("3");

jbtnDigit3.addActionListener(new java.awt.event.ActionListener() {

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

jbtnDigit3ActionPerformed(evt);

}

});

getContentPane().add(jbtnDigit3, new org.netbeans.lib.awtextra.AbsoluteConstraints(190, 290, 70, 60));

jbtnMul.setBackground(new java.awt.Color(204, 204, 255));

jbtnMul.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnMul.setText("\*");

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

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

jbtnMulActionPerformed(evt);

}

});

getContentPane().add(jbtnMul, new org.netbeans.lib.awtextra.AbsoluteConstraints(270, 290, 70, 60));

jbtnDot.setBackground(new java.awt.Color(204, 204, 255));

jbtnDot.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDot.setText(".");

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

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

jbtnDotActionPerformed(evt);

}

});

getContentPane().add(jbtnDot, new org.netbeans.lib.awtextra.AbsoluteConstraints(100, 360, 70, 60));

jbtnDigit0.setBackground(new java.awt.Color(204, 204, 255));

jbtnDigit0.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDigit0.setText("0");

jbtnDigit0.setToolTipText("");

jbtnDigit0.addActionListener(new java.awt.event.ActionListener() {

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

jbtnDigit0ActionPerformed(evt);

}

});

getContentPane().add(jbtnDigit0, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 360, 70, 60));

jbtnEquall.setBackground(new java.awt.Color(204, 204, 255));

jbtnEquall.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnEquall.setText("=");

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

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

jbtnEquallActionPerformed(evt);

}

});

getContentPane().add(jbtnEquall, new org.netbeans.lib.awtextra.AbsoluteConstraints(190, 360, 70, 60));

jbtnDiv.setBackground(new java.awt.Color(204, 204, 255));

jbtnDiv.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

jbtnDiv.setText("/");

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

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

jbtnDivActionPerformed(evt);

}

});

getContentPane().add(jbtnDiv, new org.netbeans.lib.awtextra.AbsoluteConstraints(270, 360, 70, 60));

pack();

}// </editor-fold>

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

// TODO add your handling code here:

}

private void jbtnDigit7ActionPerformed(java.awt.event.ActionEvent evt) {

EnterNumbers("7");

}

private void jbtnDigit8ActionPerformed(java.awt.event.ActionEvent evt) {

EnterNumbers("8");

}

private void jbtnDigit9ActionPerformed(java.awt.event.ActionEvent evt) {

EnterNumbers("9");

}

private void jbtnDigit4ActionPerformed(java.awt.event.ActionEvent evt) {

EnterNumbers("4");

}

private void jbtnDigit5ActionPerformed(java.awt.event.ActionEvent evt) {

EnterNumbers("5");

}

private void jbtnDigit6ActionPerformed(java.awt.event.ActionEvent evt) {

EnterNumbers("6");

}

private void jbtnDigit1ActionPerformed(java.awt.event.ActionEvent evt) {

EnterNumbers("1");

}

private void jbtnDigit2ActionPerformed(java.awt.event.ActionEvent evt) {

EnterNumbers("2");

}

private void jbtnDigit3ActionPerformed(java.awt.event.ActionEvent evt) {

EnterNumbers("3");

}

private void jbtnDigit0ActionPerformed(java.awt.event.ActionEvent evt) {

EnterNumbers("0");

}

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

NumEnter1 = Double.parseDouble(jtxtResult.getText());

jtxtResult.setText("");

op ="/";

}

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

NumEnter1 = Double.parseDouble(jtxtResult.getText());

jtxtResult.setText("");

op ="\*";

}

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

NumEnter1 = Double.parseDouble(jtxtResult.getText());

jtxtResult.setText("");

op ="-";

}

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

NumEnter1 = Double.parseDouble(jtxtResult.getText());

jtxtResult.setText("");

op ="+";

}

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

jtxtResult.setText("");

}

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

double nums = Double.parseDouble(String.valueOf(jtxtResult.getText()));

nums = nums \* (-1);

jtxtResult.setText(String.valueOf(nums));

}

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

String backSp = null;

if(jtxtResult.getText().length() > 0)

{

StringBuilder sb = new StringBuilder (jtxtResult.getText());

sb.deleteCharAt(jtxtResult.getText().length() -1);

backSp = sb.toString();

jtxtResult.setText(backSp);

}

}

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

if(! jtxtResult.getText().contains("."))

{

jtxtResult.setText(jtxtResult.getText() + jbtnDot.getText());

}

}

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

NumEnter2 = Double.parseDouble(jtxtResult.getText());

if(op == "+")

{

Result = NumEnter1 + NumEnter2;

jtxtResult.setText(String.valueOf(Result));

}

if(op == "-")

{

Result = NumEnter1 - NumEnter2;

jtxtResult.setText(String.valueOf(Result));

}

if(op == "\*")

{

Result = NumEnter1 \* NumEnter2;

jtxtResult.setText(String.valueOf(Result));

}

if(op == "/")

{

Result = NumEnter1 / NumEnter2;

jtxtResult.setText(String.valueOf(Result));

}

}

/\*\*

\* @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.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(Calculaor1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Calculaor1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Calculaor1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Calculaor1.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 Calculaor1().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jbtnBS;

private javax.swing.JButton jbtnC;

private javax.swing.JButton jbtnDigit0;

private javax.swing.JButton jbtnDigit1;

private javax.swing.JButton jbtnDigit2;

private javax.swing.JButton jbtnDigit3;

private javax.swing.JButton jbtnDigit4;

private javax.swing.JButton jbtnDigit5;

private javax.swing.JButton jbtnDigit6;

private javax.swing.JButton jbtnDigit7;

private javax.swing.JButton jbtnDigit8;

private javax.swing.JButton jbtnDigit9;

private javax.swing.JButton jbtnDiv;

private javax.swing.JButton jbtnDot;

private javax.swing.JButton jbtnEquall;

private javax.swing.JButton jbtnMinus;

private javax.swing.JButton jbtnMul;

private javax.swing.JButton jbtnPM;

private javax.swing.JButton jbtnPlus;

private javax.swing.JTextField jtxtResult;

// End of variables declaration

}

**CONCLUSION**

**After having completed this project , we felt that it was an excellent learning experience as I deal with a real life project that given by a opportunity to working for the students to make their test more easy, while working on this project I got a good exposure to the sharp programming skills and various programming techniques while coding for this system I was expected to knowledge about the strength and weakness of JAVA language. A part from I have been able to appreciate the hard work of programmers spent in developing such a system the most important realization was the amount of cooperation, dedication, hard work and team spirit that goes into the making of a successful project…**

***THANK YOU***