

Addition.java (Practical 1B)

```
/*
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 * and open the template in the editor.
 */

/**
 *
 * @author Nikhil
 */
public class Frame1 extends javax.swing.JFrame {

    /**
     * Creates new form Frame1
     */
    public Frame1() {
        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">
    private void initComponents() {

        jButton1 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jButton4 = new javax.swing.JButton();
        jScrollPane2 = new javax.swing.JScrollPane();
        jTextArea2 = new javax.swing.JTextArea();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();

        jButton1.setText("jButton1");

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setText("Number 1");

        jLabel2.setText("Number 2");

        jLabel3.setText("answer :");
    }
}
```

[illegible]

```
        .addComponent(jScrollPane2, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 0, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel1)
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(33, 33, 33)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2)
            .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 123,
Short.MAX_VALUE)
        .addComponent(jButton4)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap())
    );

    pack();
} // </editor-fold>
```

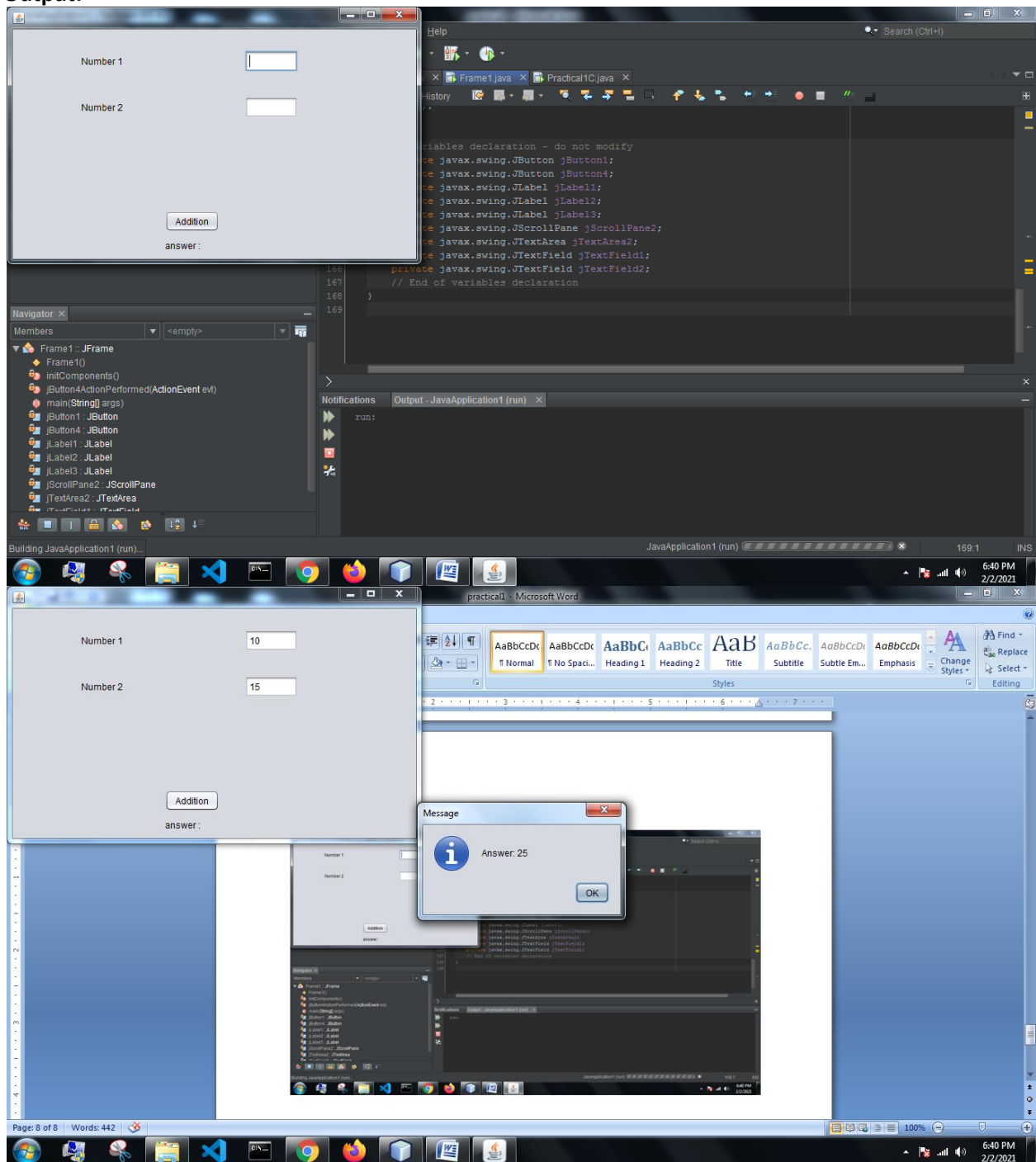
```
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

    int n1=Integer.parseInt(jTextField1.getText());
    int n2=Integer.parseInt(jTextField2.getText());
    int c= n1+n2;
    jLabel3.setText("answer: "+c);
    //JOptionPane.showMessageDialog(null,"Answer: "+c);
}

/**
 * @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(Main.class).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.Level.SEVERE, null, ex);
    }
}
```

```
    }  
    }  
    } catch (ClassNotFoundException ex) {  
        java.util.logging.Logger.getLogger(Frame1.class.getName()).log(java.util.logging.Level.SEVERE,  
null, ex);  
    } catch (InstantiationException ex) {  
        java.util.logging.Logger.getLogger(Frame1.class.getName()).log(java.util.logging.Level.SEVERE,  
null, ex);  
    } catch (IllegalAccessException ex) {  
        java.util.logging.Logger.getLogger(Frame1.class.getName()).log(java.util.logging.Level.SEVERE,  
null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
        java.util.logging.Logger.getLogger(Frame1.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 Frame1().setVisible(true);  
        }  
    });  
}  
  
// Variables declaration - do not modify  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton4;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JScrollPane jScrollPane2;  
private javax.swing.JTextArea jTextArea2;  
private javax.swing.JTextField jTextField1;  
private javax.swing.JTextField jTextField2;  
// End of variables declaration  
}
```

Output:



Calculator.java (Practical 1C)

```
import javax.swing.JOptionPane;
```

```
/*
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 * and open the template in the editor.
 */

/**
 *
 * @author Nikhil
 */
public class Practical1C extends javax.swing.JFrame {

    /**
     * Creates new form Practical1C
     */
    public Practical1C() {
        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">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jComboBox1 = new javax.swing.JComboBox<>();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    }
}
```

```
jLabel1.setText("Number 1");

jLabel2.setText("Number 2");

jTextField2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField2ActionPerformed(evt);
    }
});

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "+", "-", "X", "/",
"%"} ));
jComboBox1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jComboBox1ActionPerformed(evt);
    }
});

jLabel3.setText("Operator");

jLabel4.setText("answer :");

jButton1.setText("calculate");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel3)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, 65, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap())
        .addGroup(layout.createSequentialGroup()
            .addComponent(jButton1)
            .addContainerGap())
);
```

```
.addGroup(layout.createSequentialGroup()  
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addComponent(jLabel1)  
        .addComponent(jLabel2))  
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
        .addComponent(jTextField1, javax.swing.GroupLayout.DEFAULT_SIZE, 100,  
Short.MAX_VALUE)  
        .addComponent(jTextField2))))  
.addGap(87, 104, Short.MAX_VALUE))  
.addGroup(layout.createSequentialGroup()  
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(layout.createSequentialGroup()  
            .addGap(174, 174, 174)  
            .addComponent(jLabel4))  
        .addGroup(layout.createSequentialGroup()  
            .addGap(159, 159, 159)  
            .addComponent(jButton1)))  
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))  
);  
layout.setVerticalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addGroup(layout.createSequentialGroup()  
        .addGap(45, 45, 45)  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
            .addComponent(jLabel1)  
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addGap(19, 19, 19)  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
            .addComponent(jLabel2)  
            .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addGap(23, 23, 23)  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
            .addComponent(jLabel3)  
            .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 69,  
Short.MAX_VALUE)  
        .addComponent(jButton1)
```



```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jLabel4)
.addGap(16, 16, 16))
);

pack();
} // </editor-fold>

private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

}

private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String o=jComboBox1.getSelectedItem().toString();
    int n1=Integer.parseInt(jTextField1.getText());
    int n2=Integer.parseInt(jTextField2.getText());
    int c = 0;
    if(o.equals("+")){c=n1+n2;}
    if(o.equals("-")){c=n1-n2;}
    if(o.equals("X")){c=n1*n2;}
    if(o.equals("/")){c=n1/n2;}
    if(o.equals("%")){c=n1%n2;}

    JOptionPane.showMessageDialog(null,"answer="+c );
}

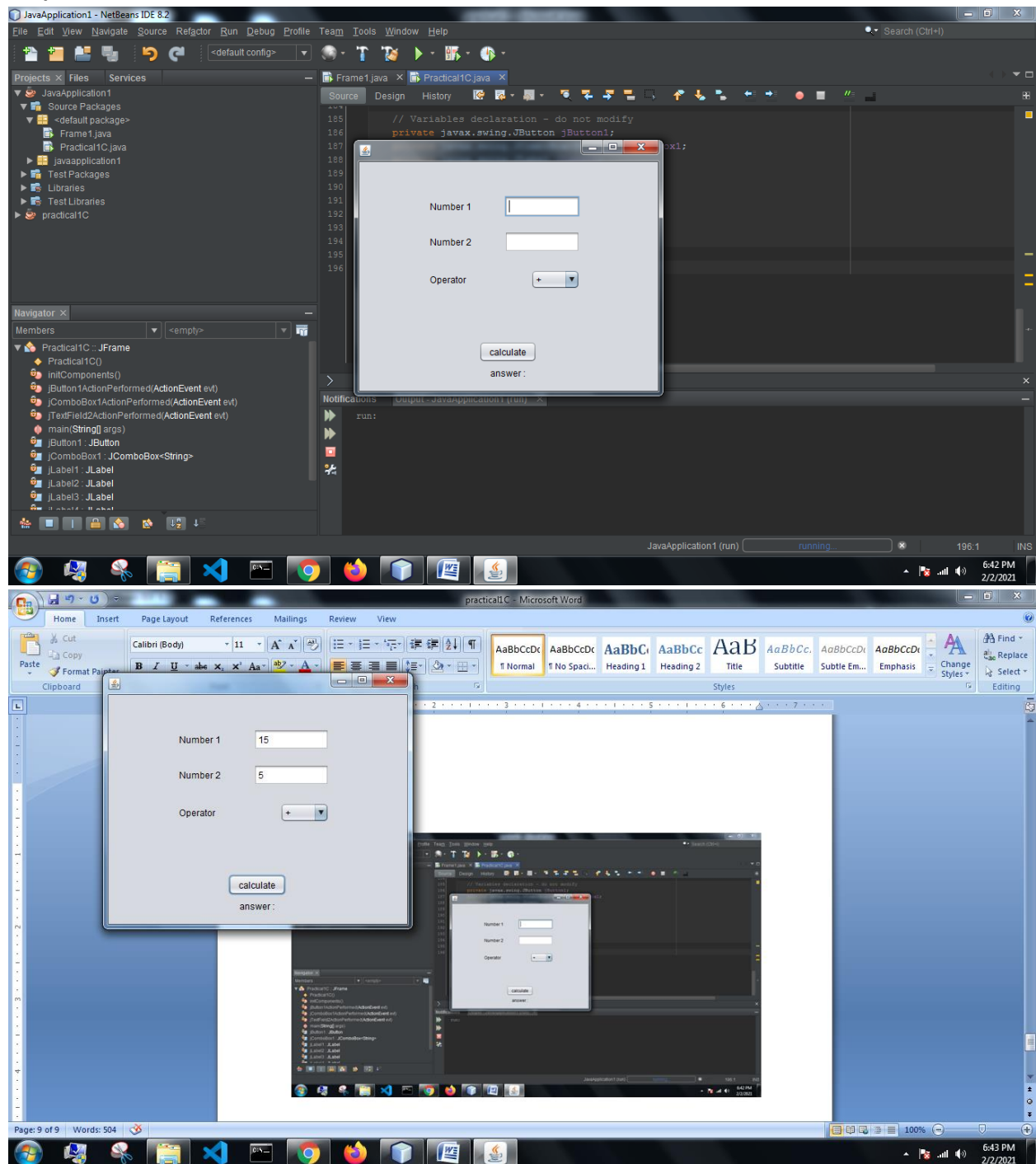
/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
```

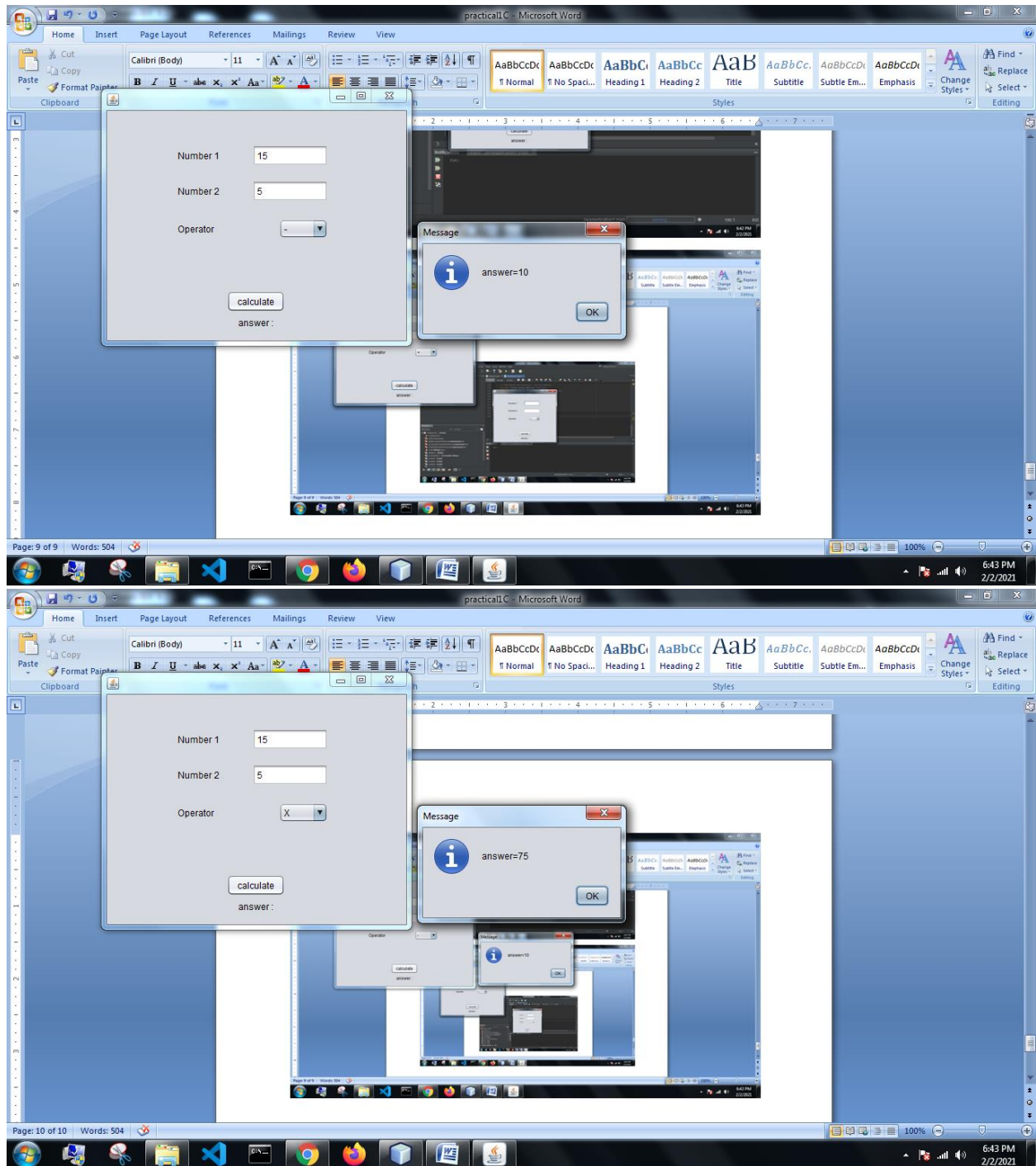
```
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Practical1C.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Practical1C.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Practical1C.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Practical1C.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
}
//</editor-fold>

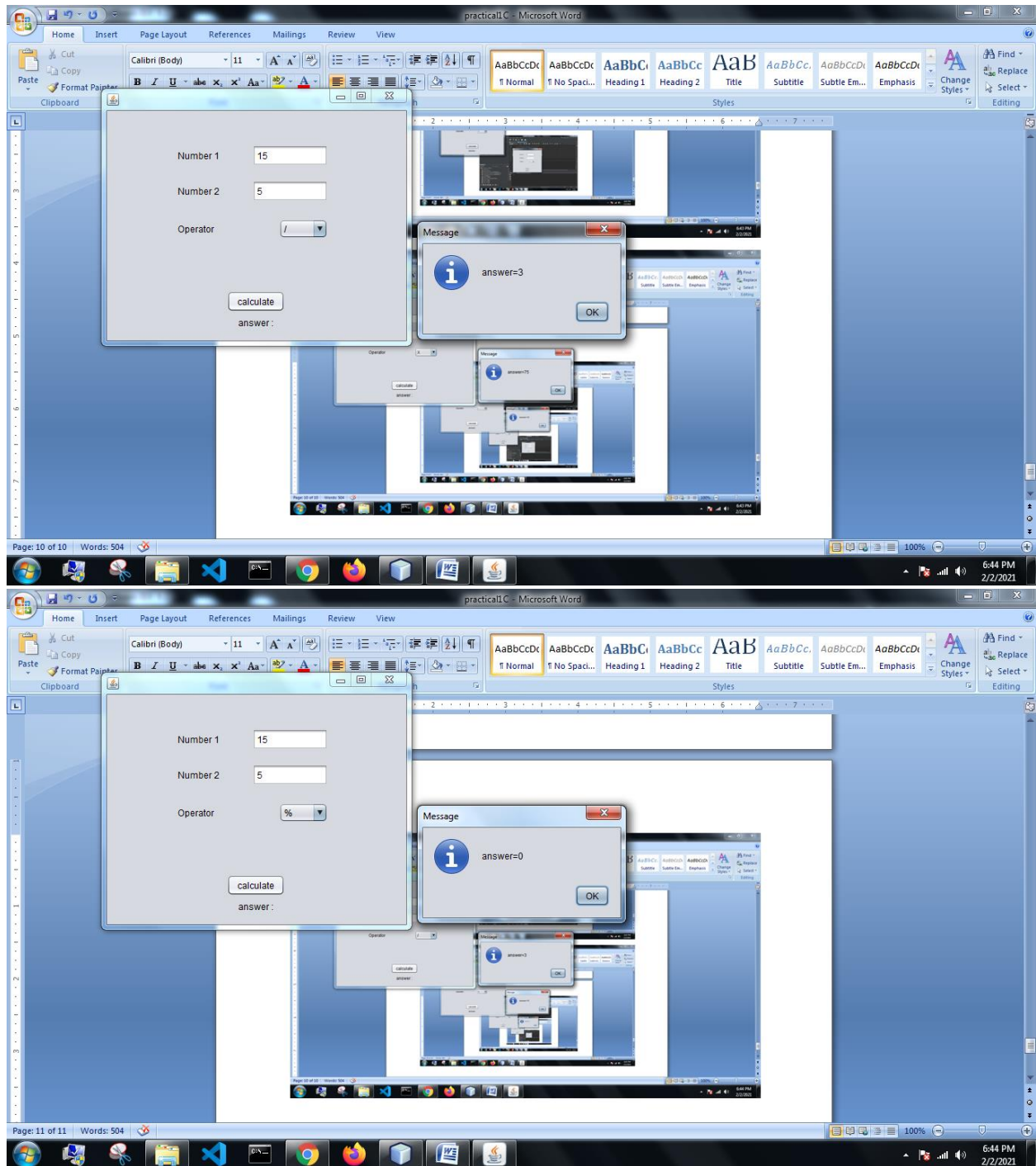
/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Practical1C().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
// End of variables declaration
}
```

Output:







Login.java (Practical 1D)

```
import javax.swing.JOptionPane;
```

```
/*
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 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author Nikhil
 */
public class Practical1D extends javax.swing.JFrame {

    /**
     * Creates new form Practical1D
     */
    public Practical1D() {
        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">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setText("Name");

        jLabel2.setText("Pass");
    }
}
```

```
        jButton1.setText("Submit");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(layout.createSequentialGroup()
                            .addGap(113, 113, 113)
                            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(jLabel1)
                                .addComponent(jLabel2))
                            .addGap(61, 61, 61)
                            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                                .addComponent(jTextField2, javax.swing.GroupLayout.DEFAULT_SIZE, 70,
Short.MAX_VALUE)
                                .addComponent(jTextField1)))
                        .addGroup(layout.createSequentialGroup()
                            .addGap(149, 149, 149)
                            .addComponent(jButton1)))
                    .addGap(123, Short.MAX_VALUE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(69, 69, 69)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel1)
                        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(18, 18, 18)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel2)
                        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                );
```

```
.addGap(18, 18, 18)
.addComponent(jButton1)
.addContainerGap(115, Short.MAX_VALUE))
);

pack();
} // </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String a=jTextField1.getText();
    String b=jTextField2.getText();
    if(a.equals("nikhil") && b.equals("password")){
        JOptionPane.showMessageDialog(null,"welcome "+a+" login sucessfull");
    }
    else{
        JOptionPane.showMessageDialog(null," wrong credentials");
    }
}

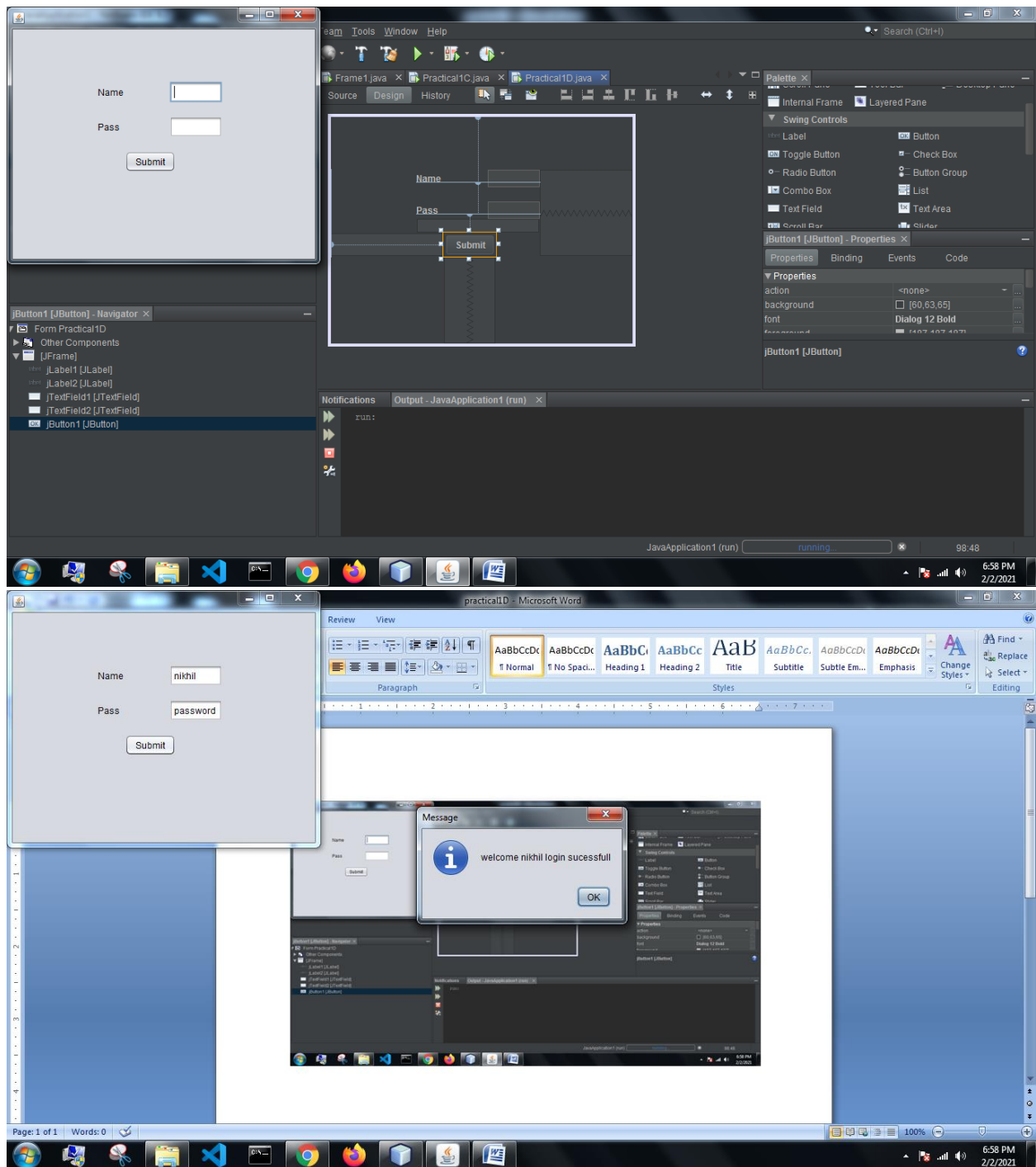
/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default 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(Practical1D.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {
```

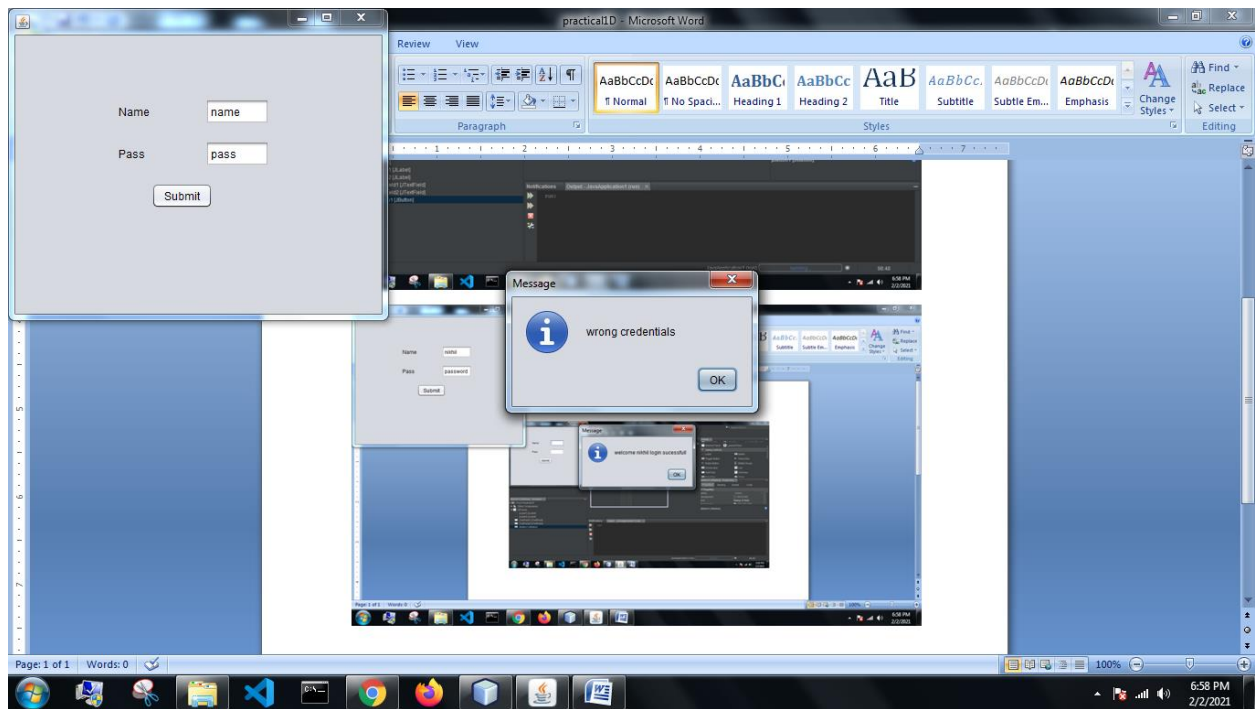


```
        java.util.logging.Logger.getLogger(Practical1D.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Practical1D.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Practical1D.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 Practical1D().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
// End of variables declaration
}
```





Registration.java (Practical 1E)

```
import java.util.Arrays;
```

```
import javax.swing.JOptionPane;
```

```
/*
```

```
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```

```
 * To change this template file, choose Tools | Templates
```

```
 * and open the template in the editor.
```

```
*/
```

```
/**
```

```
 *
```

```
 * @author Nikhil
```

```
*/
```

```
public class Practical1E extends javax.swing.JFrame {
```

```
    /**
```

```
     * Creates new form Practical1E
```

```
    */
```

```
    public Practical1E() {
```

```
        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">
```

```
    private void initComponents() {
```

```
        buttonGroup1 = new javax.swing.ButtonGroup();
```

```
        jLabel1 = new javax.swing.JLabel();
```

```
        jTextField1 = new javax.swing.JTextField();
```

```
        jLabel2 = new javax.swing.JLabel();
```

```
        jTextField2 = new javax.swing.JTextField();
```

```
        jLabel3 = new javax.swing.JLabel();
```

```
        jTextField3 = new javax.swing.JTextField();
```

```
        jLabel4 = new javax.swing.JLabel();
```

```
        jButton1 = new javax.swing.JButton();
```

```
        jButton2 = new javax.swing.JButton();
```

```
jRadioButton3 = new javax.swing.JRadioButton();
jLabel5 = new javax.swing.JLabel();
jComboBox1 = new javax.swing.JComboBox<>();
jLabel6 = new javax.swing.JLabel();
jCheckBox1 = new javax.swing.JCheckBox();
jCheckBox2 = new javax.swing.JCheckBox();
jCheckBox3 = new javax.swing.JCheckBox();
jLabel7 = new javax.swing.JLabel();
jScrollPane1 = new javax.swing.JScrollPane();
jTextArea1 = new javax.swing.JTextArea();
jButton1 = new javax.swing.JButton();
jLabel8 = new javax.swing.JLabel();
jPasswordField1 = new javax.swing.JPasswordField();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setText("Name");

jLabel2.setText("Email");

jLabel3.setText("Age");

jLabel4.setText("Gender");

buttonGroup1.add(jRadioButton1);
jRadioButton1.setText("Male");
jRadioButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRadioButton1ActionPerformed(evt);
    }
});

buttonGroup1.add(jRadioButton2);
jRadioButton2.setText("Female");

buttonGroup1.add(jRadioButton3);
jRadioButton3.setText("Other");
jRadioButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRadioButton3ActionPerformed(evt);
    }
});
```

```
jLabel5.setText("Last Exam Passed");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "SSC", "HSC",
"Graduate", "Post Graduate", "PhD" }));

jLabel6.setText("Hobbies");

jCheckBox1.setText("Chess");

jCheckBox2.setText("Swimming");

jCheckBox3.setText("Singing");
jCheckBox3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jCheckBox3ActionPerformed(evt);
    }
});

jLabel7.setText("Address");

jTextArea1.setColumns(20);
jTextArea1.setRows(5);
jScrollPane1.setViewportView(jTextArea1);

jButton1.setText("Submit");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel8.setText("Password");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(jLabel1)
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```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel1)
    .addComponent(jLabel2)
    .addComponent(jLabel3)
    .addComponent(jLabel4)
    .addComponent(jLabel8))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 210,
Short.MAX_VALUE)
.addComponent(jRadioButton1)
.addGap(18, 18, 18)
.addComponent(jRadioButton2)
.addGap(18, 18, 18)
.addComponent(jRadioButton3))
.addGroup(layout.createSequentialGroup())
.addGap(27, 27, 27)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel5)
    .addComponent(jLabel6)
    .addComponent(jLabel7))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 91,
Short.MAX_VALUE)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jCheckBox1)
        .addGap(33, 33, 33)
        .addComponent(jCheckBox2)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 44,
Short.MAX_VALUE)
        .addComponent(jCheckBox3))
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
            .addComponent(jTextField1, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 156, Short.MAX_VALUE)
            .addComponent(jTextField2, javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(jTextField3, javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(jPasswordField1, javax.swing.GroupLayout.Alignment.TRAILING))
            .addGap(76, 76, 76))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
        .addGap(112, 112, 112))
        .addComponent(jScrollPane1))))
    .addGap(64, 64, 64))
    .addGroup(layout.createSequentialGroup())
    .addGap(98, 98, 98)
    .addComponent(jButton1)
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup())
    .addContainerGap()
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel2))
            .addGap(18, 18, 18)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel3)
                .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addComponent(jLabel1))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel8)
            .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(19, 19, 19)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jRadioButton2)
                .addComponent(jRadioButton3))
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jRadioButton1)
                .addComponent(jLabel4)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```



```
.addComponent(jLabel5)
.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(layout.createSequentialGroup()
.addGap(42, 42, 42)
.addComponent(jLabel7))
.addGroup(layout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jCheckBox1)
.addComponent(jCheckBox2)
.addComponent(jLabel6)
.addComponent(jCheckBox3))
.addGap(18, 18, 18)
.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(jButton1)
.addContainerGap()
);

pack();
} // </editor-fold>

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jCheckBox3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String firstname=jTextField1.getText();
    String email=jTextField2.getText();
    String age=jTextField3.getText();
```

```
char password[];
password = jPasswordField1.getPassword();
jRadioButton1.setActionCommand("male");
jRadioButton2.setActionCommand("female");
jRadioButton3.setActionCommand("other");
String gender=buttonGroup1.getSelection().getActionCommand();
String address=jTextArea1.getText();
String check1=jCheckBox1.getText();
String check2=jCheckBox2.getText();
String check3=jCheckBox3.getText();
String component=new String();
if(jCheckBox1.isSelected()){
    component=check1+",";
}
if(jCheckBox2.isSelected()){
    component+=check2+",";
}

if(jCheckBox3.isSelected()){
    component+=check3+",";
}
String detail;

detail="firstname:"+firstname+"\nage:"+age+"\nemail:"+email+"\npassword:"+Arrays.toString(password)+"\ngender:"+gender+
    "\nAddress:"+address+"\nHobbies:"+component;
JOptionPane.showMessageDialog(this,detail);

}

/**
 * @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(Practical1E.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Practical1E.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Practical1E.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Practical1E.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 Practical1E().setVisible(true);
    }
});
}
```

```
// Variables declaration - do not modify
private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.JButton jButton1;
private javax.swing.JCheckBox jCheckBox1;
private javax.swing.JCheckBox jCheckBox2;
private javax.swing.JCheckBox jCheckBox3;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
```

```
private javax.swing.JLabel jLabel6;  
private javax.swing.JLabel jLabel7;  
private javax.swing.JLabel jLabel8;  
private javax.swing.JPasswordField jPasswordField1;  
private javax.swing.JRadioButton jRadioButton1;  
private javax.swing.JRadioButton jRadioButton2;  
private javax.swing.JRadioButton jRadioButton3;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTextArea jTextArea1;  
private javax.swing.JTextField jTextField1;  
private javax.swing.JTextField jTextField2;  
private javax.swing.JTextField jTextField3;  
// End of variables declaration  
}
```

