```
package Test;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
class\ Student Exam\ extends\ Window Adapter\ implements\ Action Listener\ \{
        JFrame f;
        JLabel 11, 12, 13, 14, 15, 16, 17, 18, 19, 110;
        JComboBox<String> c1, c2;
        JTextField t1, t2, t3, t4, t5, t6, t7;
        JButton b1, b2;
        StudentExam(){
                init();
                f.setVisible(true);
                f.setSize(700, 600);
                f.setLayout(null);
                f.setTitle("StudentExam Calculation");
                location();
                addComponents();
        }
        public void init() {
                f = new JFrame();
                f.getContentPane();
                I1 = new JLabel("Name: ");
                I2 = new JLabel("Roll No.: ");
                I3 = new JLabel("Seat No.: ");
                I4 = new JLabel("Division: ");
                I5 = new JLabel("Department: ");
                16 = new JLabel("Enter the marks obtained out of 100 : ");
```

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17 = new JLabel("Maths");
        18 = new JLabel("Physics");
        19 = new JLabel("Chemistry");
        l10 = new JLabel("English");
        t1 = new JTextField();
        t2 = new JTextField();
        t3 = new JTextField();
        t4 = new JTextField();
        t5 = new JTextField();
        t6 = new JTextField();
        t7 = new JTextField();
        c1 = new JComboBox<>();
        c2 = new JComboBox<>();
        b1 = new JButton("Calculate");
        b1.setBackground(new Color(200, 170, 190).brighter());
        b2 = new JButton("Reset");
        b2.setBackground(new Color(200, 170, 190).brighter());
}
public void addComponents() {
        f.addWindowListener(this);
        f.add(l1);
        f.add(I2);
        f.add(I3);
        f.add(t1);
        f.add(t2);
        f.add(t3);
        f.add(I4);
        f.add(I5);
        f.add(I6);
        f.add(c1);
```

```
f.add(c2);
        c1.setSelectedIndex(-1);
        c2.setSelectedIndex(-1);
        f.add(I7);
        f.add(I8);
        f.add(I9);
        f.add(l10);
        f.add(t4);
        f.add(t5);
        f.add(t6);
        f.add(t7);
        f.add(b1);
        f.add(b2);
        b1.addActionListener(this);
        b2.addActionListener(this);
}
public void location() {
        l1.setBounds(50, 40, 70, 30);
        l1.setFont(new Font(Font.SANS_SERIF, Font.PLAIN, 14));
        12.setBounds(50, 90, 70, 30);
        12.setFont(new Font(Font.SANS_SERIF, Font.PLAIN, 14));
        I3.setBounds(50, 140, 70, 30);
        13.setFont(new Font(Font.SANS_SERIF, Font.PLAIN, 14));
        t1.setBounds(120, 40, 200, 30);
        t2.setBounds(120, 90, 200, 30);
        t3.setBounds(120, 140, 200, 30);
        I4.setBounds(400, 40, 70, 30);
        I4.setFont(new Font(Font.SANS_SERIF, Font.PLAIN, 14));
        15.setBounds(400, 90, 90, 30);
        15.setFont(new Font(Font.SANS_SERIF, Font.PLAIN, 14));
```

```
l6.setBounds(200, 200, 250, 30);
       l6.setFont(new Font(Font.SANS_SERIF, Font.PLAIN, 14));
       c1.setBounds(500, 40, 90, 30);
       c1.addItem("TE V");
       c1.addItem("TE VI");
       c1.addItem("TE VII");
       c1.addItem("TE VIII");
       c2.setBounds(500, 90, 90, 30);
       c2.addItem("E&TC");
       c2.addItem("CS");
       c2.addItem("IT");
       17.setBounds(90, 250, 70, 30);
       17.setFont(new Font(Font.SANS_SERIF, Font.PLAIN, 14));
       18.setBounds(90, 310, 70, 30);
       18.setFont(new Font(Font.SANS_SERIF, Font.PLAIN, 14));
       19.setBounds(400, 250, 70, 30);
       19.setFont(new Font(Font.SANS_SERIF, Font.PLAIN, 14));
       l10.setBounds(400, 310, 70, 30);
       l10.setFont(new Font(Font.SANS_SERIF, Font.PLAIN, 14));
       t4.setBounds(160, 250, 100, 30);
       t5.setBounds(160, 310, 100, 30);
       t6.setBounds(470, 250, 100, 30);
       t7.setBounds(470, 310, 100, 30);
       b1.setBounds(160, 400, 100, 30);
       b2.setBounds(400, 400, 100, 30);
}
public void windowClosing(WindowEvent e) {
       f.dispose();
}
```

```
public void actionPerformed(ActionEvent e) {
                                                 if(e.getSource()==b1) {
                                                                          if(t1.getText().isEmpty() || t2.getText().isEmpty() || t3.getText().isEmpty() ||
t4.getText().isEmpty() || t5.getText().isEmpty() || t6.getText().isEmpty() || t7.getText().isEmpty() ||
c1.getSelectedIndex()==-1 || c2.getSelectedIndex()==-1) {
                                                                                                  JOptionPane.showMessageDialog(f, "Invalid Input \nOne or more
input fields empty!");
                                                                         }
                                                                          else {
                                                                                                  int a = Integer.parseInt(t4.getText());
                                                                                                  int b = Integer.parseInt(t5.getText());
                                                                                                  int c = Integer.parseInt(t6.getText());
                                                                                                  int d = Integer.parseInt(t7.getText());
                                                                                                  int percentage = ((a+b+c+d) * 100)/400;
                                                                                                  f.dispose();
                                                                                                  JOptionPane.showMessageDialog(f, "Name: "+t1.getText()+"\nRoll
No.:"+t2.getText()+"\\nDivision:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelectedItem()+"\\nDepartment:"+c1.getSelecte
2.getSelectedItem()+"\nResult: "+percentage+"%");
                                                                         }
                                                 }
                                                 else {
                                                                         t1.setText("");
                                                                         t2.setText("");
                                                                         t3.setText("");
                                                                         t4.setText("");
                                                                         t5.setText("");
                                                                         t6.setText("");
                                                                         t7.setText("");
                                                                         c1.setSelectedIndex(-1);
                                                                         c2.setSelectedIndex(-1);
                                                 }
                        }
}
```

```
public class DemoThree {
    public static void main(String args[])
    {
        new StudentExam();
    }
}
```