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LAB 7 EXERCISE 3

CODING

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

public class CourseEvaluationForm {

    public static void main(String[] args) throws Exception
    {
        MyFrame f = new MyFrame();
    }
}

class MyFrame
    extends JFrame implements ActionListener {

    Container c;
    JLabel titleLabel, nameLabel, matricNumLabel, coursecodeLabel, resLabel,
rcnfmLabel;
    JTextField tname, tmatricNum;
    JComboBox code;
    JLabel rating;
    JRadioButton rate1, rate2, rate3, rate4, rate5;
    ButtonGroup rate;
    JLabel outcome;
    JCheckBox Bknowledge, Aknowledge;
    JButton sub, clear;
    JTextArea tout;

    Font titleFont = new Font("Times New Roman", Font.CENTER_BASELINE, 30);
    Font titleFont2 = new Font("Times New Roman", Font.CENTER_BASELINE, 23);

    String codes[] = { "KK14203", "KT14202", "KK13203", "UW02204" };

    public MyFrame()
    {
        setTitle("Evaluation");
        setBounds(0, 0, 450, 550);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setResizable(false);
        JMenuBar menuBar = new JMenuBar();
        setJMenuBar(menuBar);
        JMenu file = new JMenu("Menu");
        menuBar.add(file);
        JMenuItem open = new JMenuItem("Load Data");
        open.addActionListener(this);
        file.add(open);
        JMenuItem quit = new JMenuItem("Exit");
        quit.addActionListener(this);
        file.add(quit);

        c = getContentPane();
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c.setLayout(null);

titleLabel = new JLabel("Course Evaluation Form");
titleLabel.setFont(titleFont);
titleLabel.setSize(500, 50);
titleLabel.setLocation(50, 25);
c.add(titleLabel);

nameLabel = new JLabel("Name");
titleLabel.setFont(titleFont);
nameLabel.setSize(230, 20);
nameLabel.setLocation(10, 100);
c.add(nameLabel);

tname = new JTextField();
titleLabel.setFont(titleFont);
tname.setSize(200, 23);
tname.setLocation(130, 100);
c.add(tname);

matricNumLabel = new JLabel("Matric No.");
titleLabel.setFont(titleFont);
matricNumLabel.setSize(180, 20);
matricNumLabel.setLocation(10, 130);
c.add(matricNumLabel);

tmatricNum = new JTextField();
titleLabel.setFont(titleFont);
tmatricNum.setSize(130, 23);
tmatricNum.setLocation(130, 130);
c.add(tmatricNum);

coursecodeLabel = new JLabel("Course Code");
titleLabel.setFont(titleFont);
coursecodeLabel.setSize(220, 25);
coursecodeLabel.setLocation(10, 160);
c.add(coursecodeLabel);

code = new JComboBox(codes);
titleLabel.setFont(titleFont);
code.setSize(150, 20);
code.setLocation(130, 160);
c.add(code);

rating = new JLabel("Rating");
titleLabel.setFont(titleFont);
rating.setSize(100, 20);
rating.setLocation(10, 190);
c.add(rating);

rate1 = new JRadioButton("1");
titleLabel.setFont(titleFont);
rate1.setSelected(true);
rate1.setSize(40, 20);
rate1.setLocation(130, 190);
c.add(rate1);

rate2 = new JRadioButton("2");
titleLabel.setFont(titleFont);

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rate2.setSelected(false);
rate2.setSize(40, 20);
rate2.setLocation(170, 190);
c.add(rate2);

rate3 = new JRadioButton("3");
titleLabel.setFont(titleFont);
rate3.setSelected(true);
rate3.setSize(40, 20);
rate3.setLocation(210, 190);
c.add(rate3);

rate4 = new JRadioButton("4");
titleLabel.setFont(titleFont);
rate4.setSelected(false);
rate4.setSize(40, 20);
rate4.setLocation(250, 190);
c.add(rate4);

rate5 = new JRadioButton("5");
titleLabel.setFont(titleFont);
rate5.setSelected(false);
rate5.setSize(40, 20);
rate5.setLocation(290, 190);
c.add(rate5);

rate = new ButtonGroup();
rate.add(rate1);
rate.add(rate2);
rate.add(rate3);
rate.add(rate4);
rate.add(rate5);

outcome = new JLabel("Outcome");
titleLabel.setFont(titleFont);
outcome.setSize(100, 20);
outcome.setLocation(10, 220);
c.add(outcome);

Bknowledge = new JCheckBox("Basic Knowledge");
titleLabel.setFont(titleFont);
Bknowledge.setSize(140, 20);
Bknowledge.setLocation(130, 220);
c.add(Bknowledge);

Aknowledge = new JCheckBox("Advanced Knowledge");
titleLabel.setFont(titleFont);
Aknowledge.setSize(180, 20);
Aknowledge.setLocation(270, 220);
c.add(Aknowledge);

sub = new JButton("Submit");
titleLabel.setFont(titleFont);
sub.setSize(80, 25);
sub.setLocation(10, 250);
sub.addActionListener(this);
c.add(sub);

clear = new JButton("Clear");

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        titleNameLabel.setFont(titleFont);
        clear.setSize(80, 25);
        clear.setLocation(95, 250);
        clear.addActionListener(this);
        c.add(clear);

        tout = new JTextArea();
        titleNameLabel.setFont(titleFont);
        tout.setSize(425, 150);
        tout.setLocation(10, 310);
        tout.setLineWrap(true);
        tout.setEditable(false);
        c.add(tout);

        resLabel = new JLabel("");
        titleNameLabel.setFont(titleFont);
        resLabel.setSize(500, 25);
        resLabel.setLocation(100, 500);
        c.add(resLabel);

        rcnfmLabel = new JLabel("");
        titleNameLabel.setFont(titleFont);
        rcnfmLabel.setSize(500, 25);
        rcnfmLabel.setLocation(100, 280);
        c.add(rcnfmLabel);

        setVisible(true);
    }

    public void actionPerformed(ActionEvent e)
    {
        if (e.getSource() == sub) {
            if (Bknowledge.isSelected()) {
                String data1;
                String data
                    = "Output" + "\n" + "-----" + "\n" + "Name : " +
tname.getText() + "\n" + "Matric No : " + tmatricNum.getText() + "\n";
                if (rate1.isSelected())
                    data1 = "Rating : 1" + "\n";
                if (rate2.isSelected())
                    data1 = "Rating : 2" + "\n";
                if (rate3.isSelected())
                    data1 = "Rating : 3" + "\n";
                if (rate4.isSelected())
                    data1 = "Rating : 4" + "\n";
                else
                    data1 = "Rating : 5" + "\n";
                String data2
                    = "Course Code : " + (String)code.getSelectedItemAt() + "\n";
                String data3 = " ";
                tout.setText(data + data1 + data2 + data3);
                tout.setEditable(false);
                resLabel.setText("Evaluation Successful");
            }
            else {
                tout.setText("");
                resLabel.setText("");
                rcnfmLabel.setText("Please complete the evaluation");
            }
        }
    }

```

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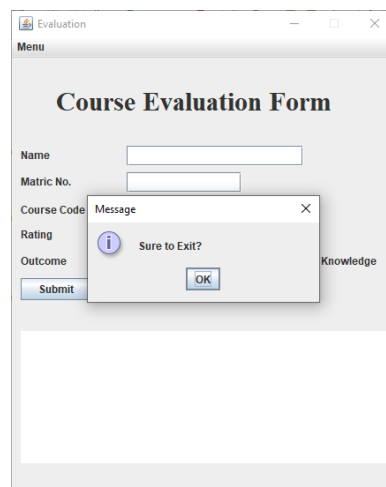
    }

    else if (e.getSource() == clear) {
        String def = "";
        tname.setText(def);
        tmatricNum.setText(def);
        resLabel.setText(def);
        tout.setText(def);
        Bknowledge.setSelected(false);
        code.setSelectedIndex(0);

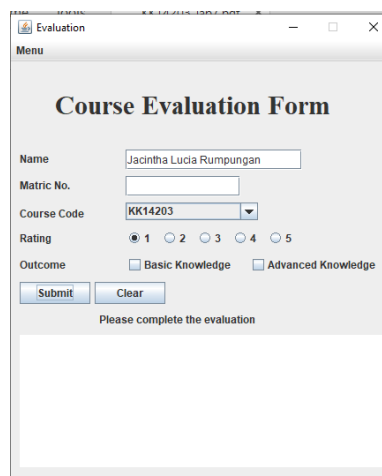
    }
    String choice = e.getActionCommand();
    if (choice.equals("Load Data")) {
        System.exit(0);
    }
    else if (choice.equals("Exit")) {
        JOptionPane.showMessageDialog(this, "Sure to Exit?");
    }
}
}
}

```

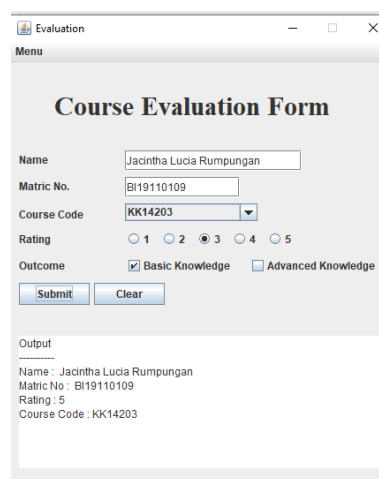
1. Add Menu Bar at the top with menu 'Load Data' to read from file and view in the output text Area. Menu 'Exit' to show 'showConfirmDialog' and exit the application if user select 'yes' in the dialog.



2. Input validation from all input to check if user empty field or selections when user click 'Submit' button.



3. Save (add) the data into a text file with dialog notification (e.g. showMessageDialog) whether input is successfully saved.



4. Implement at least ONE (1) exception handling (e.g. file IO and dealing with empty input field).

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224         else {  
225             tout.setText("");  
226             resLabel.setText("");  
227             rcnfmLabel.setText("Please complete the evaluation");  
228         }  
229     }
```