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import java.awt.event.*;
import javax.swing.*;
public class SwingExample{
    SwingExample(){
        JFrame jframe=new JFrame("This App contains almost all
            Elements of Swing");
        jframe.setSize(600, 500);
        jframe.setLocationRelativeTo(null);
        jframe.setLayout(null);
        jframe.setVisible(true);

        //Name
        JLabel lblName=new JLabel("Name: ");
        lblName.setBounds(30, 12, 150, 10);
        jframe.add(lblName);

        JTextField txtName=new JTextField();
        txtName.setBounds(100, 10, 150, 20);
        jframe.add(txtName);

        //Address
        JLabel lblAddress=new JLabel("Address: ");
        lblAddress.setBounds(300, 12, 150, 10);
        jframe.add(lblAddress);

        JTextField txtAddress=new JTextField();
        txtAddress.setBounds(370, 10, 150, 20);
        jframe.add(txtAddress);

        //Class
        JLabel lblClass=new JLabel("Class: ");
        lblClass.setBounds(30, 60, 150, 10);
        jframe.add(lblClass);

        JComboBox<String> cmbClass=new JComboBox<String>();
        cmbClass.addItem("Select Class");
        cmbClass.addItem("BCA");
        cmbClass.addItem("BBA");
        cmbClass.addItem("MCA");
        cmbClass.addItem("MBA");

        /*String[] clas= {"BCA","BBA"};
        JComboBox cmbClass=new JComboBox(clas);*/

        cmbClass.setBounds(100, 55, 150, 20);

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//cmbClass.setEditable(true);
jframe.add(cmbClass);

//Gender
JLabel lblSex=new JLabel("Gender: ");
lblSex.setBounds(300,60,80,10);
jframe.add(lblSex);

ButtonGroup group1=new ButtonGroup();
JRadioButton chkMale=new JRadioButton("Male",true);
chkMale.setBounds(360, 55, 70, 20);
jframe.add(chkMale);
group1.add(chkMale);

JRadioButton chkFemale=new JRadioButton("Female");
chkFemale.setBounds(430, 55, 70, 20);
jframe.add(chkFemale);
group1.add(chkFemale);

//Shift
JLabel lblShift=new JLabel("Shift: ");
lblShift.setBounds(30,100,80,10);
jframe.add(lblShift);

String[] shift= {"Morning","Day","Evening"};
JList list1=new JList(shift);
list1.setBounds(100, 100, 100, 60);
jframe.add(list1);

//Remarks
JLabel lblRemarks=new JLabel("Remarks: ");
lblRemarks.setBounds(300,100,80,10);
jframe.add(lblRemarks);

JTextArea txtArea=new JTextArea();
txtArea.setBounds(400, 100, 150, 100);
jframe.add(txtArea);

//JTable
String data[][]={ {"101","Amit","670000"},
                  {"102","Jai","780000"},
                  {"101","Sachin","700000"} };
String column[]={"ID","NAME","SALARY"};
JTable jt=new JTable(data,column);
JScrollPane sp=new JScrollPane(jt);
sp.setBounds(30,200,250,80);

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jframe.add(sp);
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JButton click=new JButton("Submit");  
click.setBounds(200,300,100,30);  
jframe.add(click);
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```
//creating menu  
JMenuBar mb=new JMenuBar();  
mb.setBounds(30, 350, 200, 20);  
JMenu menu1=new JMenu("File");  
JMenuItem item1,item3;  
item1=new JMenuItem("New");  
JMenu item2=new JMenu("Open");  
JMenuItem i1,i2;  
i1=new JMenuItem("Open Project");  
i2=new JMenuItem("Open File");  
item2.add(i1);  
item2.add(i2);  
item3=new JMenuItem("Close");  
menu1.add(item1);  
menu1.add(item2);  
menu1.add(item3);  
mb.add(menu1);
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```
JMenu menu2=new JMenu("Edit");  
JMenuItem it1,it2;  
it1=new JMenuItem("Copy");  
it2=new JMenuItem("Paste");  
menu2.add(it1);  
menu2.add(it2);  
mb.add(menu2);  
jframe.add(mb);
```

```
click.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent ae) {  
        //get textfield  
        String name=txtName.getText();  
  
        //get combo  
        String clas=cmbClass.getSelectedItem().toString();  
  
        //get radio + checkbox (same process)  
        String gender="";  
        if(chkMale.isSelected())
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        gender=chkMale.getText();
    else
        gender=chkFemale.getText();

    //getList
    String shift=list1.getSelectedValuesList().toString();

    //get textarea
    String remarks=txtArea.getText();
    JOptionPane.showMessageDialog(null, "Remarks: "+remarks);
    }
    });

    //can use action listener also
    cmbClass.addItemListener(new ItemListener() {
        public void itemStateChanged(ItemEvent e) {
            if(e.getStateChange()==ItemEvent.SELECTED)
                JOptionPane.showMessageDialog(null,
                    cmbClass.getSelectedItem().toString());
            }
    });

    // listener on menu item
    //can use item listener also
    item1.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent ae) {
            JOptionPane.showMessageDialog(null,
                item1.getText().toString()+" Clicked!");
        }
    });

    }

    public static void main(String[] args) {
        SwingUtilities.invokeLater(new Runnable() {
            public void run() {
                new SwingExample();
            }
        });
    }
}

```