Project Made in Java Language GUI Components

**Program Code**

import java.io.\*;

import java.util.\*;

import java.awt.\*;

import javax.swing.\*;

import java.awt.event.\*;

import java.awt.Font.\*;

public class E\_Learning

{

public static void main(String args[])

{

final Frame f = new Frame("Login Window");

f.setSize(400,400);

f.setVisible(true);

f.setLayout(null);

f.setBackground(Color.CYAN);

Font myfont = new Font("Arial",Font.BOLD,15);

Label l1 = new Label("Username:");

l1.setFont(myfont);

l1.setBounds(20,40,100,20);

final TextField tf1 = new TextField();

tf1.setBounds(120,40,100,20);

Label l2 = new Label("Password:");

l2.setFont(myfont);

l2.setBounds(20,80,100,20);

final TextField tf2 = new TextField();

tf2.setBounds(120,80,100,20);

final JButton b1 = new JButton("SUBMIT");

b1.setBackground(Color.RED);

b1.setForeground(Color.WHITE);

b1.setBounds(20,130,80,20);

final JButton b2 = new JButton("PROCEED");

b2.setBackground(Color.BLUE);

b2.setForeground(Color.WHITE);

b2.setBounds(130,130,90,20);

final Label l3 = new Label("Please Enter Username and Password...");

l3.setFont(myfont);

l3.setForeground(Color.RED);

l3.setBounds(20,170,300,20);

f.add(l1);f.add(tf1);f.add(l2);f.add(tf2);f.add(b1);f.add(b2);f.add(l3);

b1.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

if(tf1.getText().isEmpty() && tf2.getText().isEmpty())

{

l3.setText("Both Fields are Empty...!");

}

else if(tf1.getText().isEmpty() || tf2.getText().isEmpty())

{

l3.setText("One of both fields is Empty...!");

}

else if(tf1.getText().equals("aneesh") && tf2.getText().equals("abc"))

{

l3.setText("Login Successfully...Please Proceed!");

b1.setEnabled(false);

b2.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

b2.setEnabled(false);

final Frame f = new Frame("E\_Learning");

f.setSize(700,412);

f.setVisible(true);

f.setLayout(null);

ImageIcon icon = new ImageIcon("background.png");

JLabel l1 = new JLabel(icon);

l1.setBounds(0,40,700,412);

f.add(l1);

MenuBar mb = new MenuBar();

Menu m2 = new Menu("Languages");

MenuItem mu1 = new MenuItem("Founders");

m2.add(mu1);

mu1.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

final Frame f = new Frame("Founders");

f.setSize(600,600);

f.setVisible(true);

f.setLayout(null);

f.addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

f.dispose();

}

});

final CheckboxGroup cbg = new CheckboxGroup();

final Checkbox c1 = new Checkbox("C",true,cbg);

c1.setBounds(20,40,100,20);

final Checkbox c2 = new Checkbox("C++",false,cbg);

c2.setBounds(20,80,100,20);

final Checkbox c3 = new Checkbox("Java",false,cbg);

c3.setBounds(20,120,100,20);

final Checkbox c4 = new Checkbox("Python",false,cbg);

c4.setBounds(20,160,100,20);

final ImageIcon icon = new ImageIcon("c.jpg");

final JLabel jl1 = new JLabel(icon);

jl1.setBounds(200,40,300,300);

Font fn = new Font("Times New Roman",Font.BOLD,20);

final Label la1 = new Label("Dennus Ritche");

la1.setFont(fn);

la1.setBounds(300,400,250,20);

final ImageIcon i1 = new ImageIcon("c++.jpg");

final ImageIcon i2 = new ImageIcon("java.jpg");

final ImageIcon i3 = new ImageIcon("python.jpg");

c1.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon);

la1.setText("Dennus Ritche");

}

});

c2.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(i1);

la1.setText("Bjarne Stroustrup");

}

});

c3.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(i2);

la1.setText("Games Goslin");

}

});

c4.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(i3);

la1.setText("Guido van Rossum");

}

});

f.add(c1);f.add(c2);f.add(c3);f.add(c4);f.add(jl1);f.add(la1);

}

});

Menu m3 = new Menu("MCQs");

final MenuItem mta1,mta2,mta3,mta4,mta5;

mta1 = new MenuItem("C");

mta1.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

mta1.setEnabled(false);

final Frame f = new Frame("C MCQs");

f.setSize(400,700);

f.setVisible(true);

f.setLayout(null);

final Label l1 = new Label("1.Which Operator is used for modulus operation:");

l1.setBounds(20,40,300,15);

final CheckboxGroup cbg1 = new CheckboxGroup();

final Checkbox c1 = new Checkbox("+",false,cbg1);

c1.setBounds(20,60,300,15);

final Checkbox c2 = new Checkbox("-",false,cbg1);

c2.setBounds(20,80,300,15);

final Checkbox c3 = new Checkbox("%",false,cbg1);

c3.setBounds(20,100,300,15);

final Checkbox c4 = new Checkbox("/",false,cbg1);

c4.setBounds(20,120,300,15);

final JButton b1 = new JButton("Submit");

b1.setForeground(Color.RED);

b1.setBounds(20,590,80,20);

final Label l2 = new Label("2.printf() and scanf() functions belongs to which library:");

l2.setBounds(20,150,300,15);

final CheckboxGroup cbg2 = new CheckboxGroup();

final Checkbox ca1 = new Checkbox("math.h",false,cbg2);

ca1.setBounds(20,170,300,15);

final Checkbox ca2 = new Checkbox("conio.h",false,cbg2);

ca2.setBounds(20,190,300,15);

final Checkbox ca3 = new Checkbox("string.h",false,cbg2);

ca3.setBounds(20,210,300,15);

final Checkbox ca4 = new Checkbox("stdio.h",false,cbg2);

ca4.setBounds(20,230,300,15);

final Label l3 = new Label("3.Select Proper Array Defination:");

l3.setBounds(20,260,300,15);

final CheckboxGroup cbg3 = new CheckboxGroup();

final Checkbox cb1 = new Checkbox("Group of similar data type elements",false,cbg3);

cb1.setBounds(20,280,300,15);

final Checkbox cb2 = new Checkbox("Group of different data type elements",false,cbg3);

cb2.setBounds(20,300,300,15);

final Checkbox cb3 = new Checkbox("Group of mix data type elements",false,cbg3);

cb3.setBounds(20,320,300,15);

final Checkbox cb4 = new Checkbox("None of Above",false,cbg3);

cb4.setBounds(20,340,300,15);

final Label l4 = new Label("4.Who Created C Language:");

l4.setBounds(20,370,300,15);

final CheckboxGroup cbg4 = new CheckboxGroup();

final Checkbox cc1 = new Checkbox("Dennus Ritche",false,cbg4);

cc1.setBounds(20,390,300,15);

final Checkbox cc2 = new Checkbox("Games Goslin",false,cbg4);

cc2.setBounds(20,410,300,15);

final Checkbox cc3 = new Checkbox("Guido Van Rossum",false,cbg4);

cc3.setBounds(20,430,300,15);

final Checkbox cc4 = new Checkbox("Larry Wall",false,cbg4);

cc4.setBounds(20,450,300,15);

final Label l5 = new Label("5.Which is not feature of C language");

l5.setBounds(20,480,300,15);

final CheckboxGroup cbg5 = new CheckboxGroup();

final Checkbox cd1 = new Checkbox("Extensible",false,cbg5);

cd1.setBounds(20,500,300,15);

final Checkbox cd2 = new Checkbox("Machine Dependent",false,cbg5);

cd2.setBounds(20,520,300,15);

final Checkbox cd3 = new Checkbox("Pointers",false,cbg5);

cd3.setBounds(20,540,300,15);

final Checkbox cd4 = new Checkbox("Faster",false,cbg5);

cd4.setBounds(20,560,300,15);

b1.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

b1.setEnabled(false);

if(c1.getState() == true)

{

c1.setBackground(Color.YELLOW);

}

else if(c2.getState() == true)

{

c2.setBackground(Color.YELLOW);

}

else if(c4.getState() == true)

{

c4.setBackground(Color.YELLOW);

}

c3.setBackground(Color.GREEN);

if(ca1.getState() == true)

{

ca1.setBackground(Color.YELLOW);

}

else if(ca2.getState() == true)

{

ca2.setBackground(Color.YELLOW);

}

else if(ca3.getState() == true)

{

ca3.setBackground(Color.YELLOW);

}

ca4.setBackground(Color.GREEN);

if(cb3.getState() == true)

{

cb3.setBackground(Color.YELLOW);

}

else if(cb2.getState() == true)

{

cb2.setBackground(Color.YELLOW);

}

else if(cb4.getState() == true)

{

cb4.setBackground(Color.YELLOW);

}

cb1.setBackground(Color.GREEN);

if(cc3.getState() == true)

{

cc3.setBackground(Color.YELLOW);

}

else if(cc2.getState() == true)

{

cc2.setBackground(Color.YELLOW);

}

else if(cc4.getState() == true)

{

cc4.setBackground(Color.YELLOW);

}

cc1.setBackground(Color.GREEN);

if(cd3.getState() == true)

{

cd3.setBackground(Color.YELLOW);

}

else if(cb1.getState() == true)

{

cd2.setBackground(Color.YELLOW);

}

else if(cd4.getState() == true)

{

cd4.setBackground(Color.YELLOW);

}

cd2.setBackground(Color.GREEN);

}

});

f.add(l1);f.add(c1);f.add(c2);f.add(c3);f.add(c4);

f.add(l2);f.add(ca1);f.add(ca2);f.add(ca3);f.add(ca4);

f.add(l3);f.add(cb1);f.add(cb2);f.add(cb3);f.add(cb4);

f.add(l4);f.add(cc1);f.add(cc2);f.add(cc3);f.add(cc4);

f.add(l5);f.add(cd1);f.add(cd2);f.add(cd3);f.add(cd4);

f.add(b1);

f.addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

b1.setEnabled(true);

mta1.setEnabled(true);

f.dispose();

}

});

}

});

mta2 = new MenuItem("C++");

mta2.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

mta2.setEnabled(false);

final Frame f = new Frame("C++ MCQs");

f.setSize(400,700);

f.setVisible(true);

f.setLayout(null);

final Label l1 = new Label("1.cout() and cin() functions belongs to which library");

l1.setBounds(20,40,300,15);

final CheckboxGroup cbg1 = new CheckboxGroup();

final Checkbox c1 = new Checkbox("string.h",false,cbg1);

c1.setBounds(20,60,300,15);

final Checkbox c2 = new Checkbox("math.h",false,cbg1);

c2.setBounds(20,80,300,15);

final Checkbox c3 = new Checkbox("iostream.h",false,cbg1);

c3.setBounds(20,100,300,15);

final Checkbox c4 = new Checkbox("stdio.h",false,cbg1);

c4.setBounds(20,120,300,15);

final JButton b1 = new JButton("Submit");

b1.setForeground(Color.RED);

b1.setBounds(20,590,80,20);

final Label l2 = new Label("2.C++ language is \_\_\_\_");

l2.setBounds(20,150,300,15);

final CheckboxGroup cbg2 = new CheckboxGroup();

final Checkbox ca1 = new Checkbox("Class Oriented",false,cbg2);

ca1.setBounds(20,170,300,15);

final Checkbox ca2 = new Checkbox("Subject Oriented",false,cbg2);

ca2.setBounds(20,190,300,15);

final Checkbox ca3 = new Checkbox("Function Oriented",false,cbg2);

ca3.setBounds(20,210,300,15);

final Checkbox ca4 = new Checkbox("Object Oriented",false,cbg2);

ca4.setBounds(20,230,300,15);

final Label l3 = new Label("3.Which function is used to share data between two classes:");

l3.setBounds(20,260,400,15);

final CheckboxGroup cbg3 = new CheckboxGroup();

final Checkbox cb1 = new Checkbox("friend()",false,cbg3);

cb1.setBounds(20,280,300,15);

final Checkbox cb2 = new Checkbox("buddy()",false,cbg3);

cb2.setBounds(20,300,300,15);

final Checkbox cb3 = new Checkbox("join()",false,cbg3);

cb3.setBounds(20,320,300,15);

final Checkbox cb4 = new Checkbox("connect()",false,cbg3);

cb4.setBounds(20,340,300,15);

final Label l4 = new Label("4.Which of the following is not valid Access Specifier:");

l4.setBounds(20,370,300,15);

final CheckboxGroup cbg4 = new CheckboxGroup();

final Checkbox cc1 = new Checkbox("open",false,cbg4);

cc1.setBounds(20,390,300,15);

final Checkbox cc2 = new Checkbox("public",false,cbg4);

cc2.setBounds(20,410,300,15);

final Checkbox cc3 = new Checkbox("protected",false,cbg4);

cc3.setBounds(20,430,300,15);

final Checkbox cc4 = new Checkbox("private",false,cbg4);

cc4.setBounds(20,450,300,15);

final Label l5 = new Label("5.State Orientation of C++ Language");

l5.setBounds(20,480,300,15);

final CheckboxGroup cbg5 = new CheckboxGroup();

final Checkbox cd1 = new Checkbox("Top - Down",false,cbg5);

cd1.setBounds(20,500,300,15);

final Checkbox cd2 = new Checkbox("Bottom - Up",false,cbg5);

cd2.setBounds(20,520,300,15);

final Checkbox cd3 = new Checkbox("One Directional",false,cbg5);

cd3.setBounds(20,540,300,15);

final Checkbox cd4 = new Checkbox("Bidirectional",false,cbg5);

cd4.setBounds(20,560,300,15);

b1.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

b1.setEnabled(false);

if(c1.getState() == true)

{

c1.setBackground(Color.YELLOW);

}

else if(c2.getState() == true)

{

c2.setBackground(Color.YELLOW);

}

else if(c4.getState() == true)

{

c4.setBackground(Color.YELLOW);

}

c3.setBackground(Color.GREEN);

if(ca1.getState() == true)

{

ca1.setBackground(Color.YELLOW);

}

else if(ca2.getState() == true)

{

ca2.setBackground(Color.YELLOW);

}

else if(ca3.getState() == true)

{

ca3.setBackground(Color.YELLOW);

}

ca4.setBackground(Color.GREEN);

if(cb3.getState() == true)

{

cb3.setBackground(Color.YELLOW);

}

else if(cb2.getState() == true)

{

cb2.setBackground(Color.YELLOW);

}

else if(cb4.getState() == true)

{

cb4.setBackground(Color.YELLOW);

}

cb1.setBackground(Color.GREEN);

if(cc3.getState() == true)

{

cc3.setBackground(Color.YELLOW);

}

else if(cc2.getState() == true)

{

cc2.setBackground(Color.YELLOW);

}

else if(cc4.getState() == true)

{

cc4.setBackground(Color.YELLOW);

}

cc1.setBackground(Color.GREEN);

if(cd3.getState() == true)

{

cd3.setBackground(Color.YELLOW);

}

else if(cb1.getState() == true)

{

cd2.setBackground(Color.YELLOW);

}

else if(cd4.getState() == true)

{

cd4.setBackground(Color.YELLOW);

}

cd2.setBackground(Color.GREEN);

}

});

f.add(l1);f.add(c1);f.add(c2);f.add(c3);f.add(c4);

f.add(l2);f.add(ca1);f.add(ca2);f.add(ca3);f.add(ca4);

f.add(l3);f.add(cb1);f.add(cb2);f.add(cb3);f.add(cb4);

f.add(l4);f.add(cc1);f.add(cc2);f.add(cc3);f.add(cc4);

f.add(l5);f.add(cd1);f.add(cd2);f.add(cd3);f.add(cd4);

f.add(b1);

f.addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

b1.setEnabled(true);

mta2.setEnabled(true);

f.dispose();

}

});

}

});

mta3 = new MenuItem("Java");

mta3.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

mta3.setEnabled(false);

final Frame f = new Frame("Java MCQs");

f.setSize(400,700);

f.setVisible(true);

f.setLayout(null);

final Label l1 = new Label("1.Which of the following is not java feature");

l1.setBounds(20,40,300,15);

final CheckboxGroup cbg1 = new CheckboxGroup();

final Checkbox c1 = new Checkbox("Dynamic",false,cbg1);

c1.setBounds(20,60,300,15);

final Checkbox c2 = new Checkbox("Architecture Neutral",false,cbg1);

c2.setBounds(20,80,300,15);

final Checkbox c3 = new Checkbox("Use of Pointers",false,cbg1);

c3.setBounds(20,100,300,15);

final Checkbox c4 = new Checkbox("Object Oriented",false,cbg1);

c4.setBounds(20,120,300,15);

final JButton b1 = new JButton("Submit");

b1.setForeground(Color.RED);

b1.setBounds(20,590,80,20);

final Label l2 = new Label("2.\_\_\_\_ is used to find and fix bugs in Java Programs");

l2.setBounds(20,150,300,15);

final CheckboxGroup cbg2 = new CheckboxGroup();

final Checkbox ca1 = new Checkbox("JVM",false,cbg2);

ca1.setBounds(20,170,300,15);

final Checkbox ca2 = new Checkbox("JRE",false,cbg2);

ca2.setBounds(20,190,300,15);

final Checkbox ca3 = new Checkbox("JDK",false,cbg2);

ca3.setBounds(20,210,300,15);

final Checkbox ca4 = new Checkbox("JDB",false,cbg2);

ca4.setBounds(20,230,300,15);

final Label l3 = new Label("3.State output - float a = 35/0");

l3.setBounds(20,260,300,15);

final CheckboxGroup cbg3 = new CheckboxGroup();

final Checkbox cb1 = new Checkbox("Not Defined",false,cbg3);

cb1.setBounds(20,280,300,15);

final Checkbox cb2 = new Checkbox("Non Zero",false,cbg3);

cb2.setBounds(20,300,300,15);

final Checkbox cb3 = new Checkbox("Infinity",false,cbg3);

cb3.setBounds(20,320,300,15);

final Checkbox cb4 = new Checkbox("Error",false,cbg3);

cb4.setBounds(20,340,300,15);

final Label l4 = new Label("4.Which Keyword is used to access packages");

l4.setBounds(20,370,300,15);

final CheckboxGroup cbg4 = new CheckboxGroup();

final Checkbox cc1 = new Checkbox("import",false,cbg4);

cc1.setBounds(20,390,300,15);

final Checkbox cc2 = new Checkbox("package",false,cbg4);

cc2.setBounds(20,410,300,15);

final Checkbox cc3 = new Checkbox("extends",false,cbg4);

cc3.setBounds(20,430,300,15);

final Checkbox cc4 = new Checkbox("exports",false,cbg4);

cc4.setBounds(20,450,300,15);

final Label l5 = new Label("5.Founder of Java is \_\_\_\_");

l5.setBounds(20,480,300,15);

final CheckboxGroup cbg5 = new CheckboxGroup();

final Checkbox cd1 = new Checkbox("Dennus Ritche",false,cbg5);

cd1.setBounds(20,500,300,15);

final Checkbox cd2 = new Checkbox("Games Goslin",false,cbg5);

cd2.setBounds(20,520,300,15);

final Checkbox cd3 = new Checkbox("Guido Van Rossum",false,cbg5);

cd3.setBounds(20,540,300,15);

final Checkbox cd4 = new Checkbox("Larry Wall",false,cbg5);

cd4.setBounds(20,560,300,15);

b1.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

b1.setEnabled(false);

if(c1.getState() == true)

{

c1.setBackground(Color.YELLOW);

}

else if(c2.getState() == true)

{

c2.setBackground(Color.YELLOW);

}

else if(c4.getState() == true)

{

c4.setBackground(Color.YELLOW);

}

c3.setBackground(Color.GREEN);

if(ca1.getState() == true)

{

ca1.setBackground(Color.YELLOW);

}

else if(ca2.getState() == true)

{

ca2.setBackground(Color.YELLOW);

}

else if(ca3.getState() == true)

{

ca3.setBackground(Color.YELLOW);

}

ca4.setBackground(Color.GREEN);

if(cb3.getState() == true)

{

cb3.setBackground(Color.YELLOW);

}

else if(cb2.getState() == true)

{

cb2.setBackground(Color.YELLOW);

}

else if(cb4.getState() == true)

{

cb4.setBackground(Color.YELLOW);

}

cb1.setBackground(Color.GREEN);

if(cc3.getState() == true)

{

cc3.setBackground(Color.YELLOW);

}

else if(cc2.getState() == true)

{

cc2.setBackground(Color.YELLOW);

}

else if(cc4.getState() == true)

{

cc4.setBackground(Color.YELLOW);

}

cc1.setBackground(Color.GREEN);

if(cd3.getState() == true)

{

cd3.setBackground(Color.YELLOW);

}

else if(cb1.getState() == true)

{

cd2.setBackground(Color.YELLOW);

}

else if(cd4.getState() == true)

{

cd4.setBackground(Color.YELLOW);

}

cd2.setBackground(Color.GREEN);

}

});

f.add(l1);f.add(c1);f.add(c2);f.add(c3);f.add(c4);

f.add(l2);f.add(ca1);f.add(ca2);f.add(ca3);f.add(ca4);

f.add(l3);f.add(cb1);f.add(cb2);f.add(cb3);f.add(cb4);

f.add(l4);f.add(cc1);f.add(cc2);f.add(cc3);f.add(cc4);

f.add(l5);f.add(cd1);f.add(cd2);f.add(cd3);f.add(cd4);

f.add(b1);

f.addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

b1.setEnabled(true);

mta3.setEnabled(true);

f.dispose();

}

});

}

});

mta4 = new MenuItem("Advanced Java");

mta4.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

mta4.setEnabled(false);

final Frame f = new Frame("Advanced Java MCQs");

f.setSize(400,700);

f.setVisible(true);

f.setLayout(null);

final Label l1 = new Label("1.Which Package includes AWT Components:");

l1.setBounds(20,40,300,15);

final CheckboxGroup cbg1 = new CheckboxGroup();

final Checkbox c1 = new Checkbox("java.util.\*;",false,cbg1);

c1.setBounds(20,60,300,15);

final Checkbox c2 = new Checkbox("javax.swing.\*;",false,cbg1);

c2.setBounds(20,80,300,15);

final Checkbox c3 = new Checkbox("java.awt.\*;",false,cbg1);

c3.setBounds(20,100,300,15);

final Checkbox c4 = new Checkbox("javax.awt.\*;",false,cbg1);

c4.setBounds(20,120,300,15);

final JButton b1 = new JButton("Submit");

b1.setForeground(Color.RED);

b1.setBounds(20,590,80,20);

final Label l2 = new Label("2.Which is not window adapter Class Method:");

l2.setBounds(20,150,300,15);

final CheckboxGroup cbg2 = new CheckboxGroup();

final Checkbox ca1 = new Checkbox("windowClosed()",false,cbg2);

ca1.setBounds(20,170,300,15);

final Checkbox ca2 = new Checkbox("windowClosing()",false,cbg2);

ca2.setBounds(20,190,300,15);

final Checkbox ca3 = new Checkbox("windowLostFocus()",false,cbg2);

ca3.setBounds(20,210,300,15);

final Checkbox ca4 = new Checkbox("windowFocus()",false,cbg2);

ca4.setBounds(20,230,300,15);

final Label l3 = new Label("3.What is super class of container Class:");

l3.setBounds(20,260,300,15);

final CheckboxGroup cbg3 = new CheckboxGroup();

final Checkbox cb1 = new Checkbox("Component Class",false,cbg3);

cb1.setBounds(20,280,300,15);

final Checkbox cb2 = new Checkbox("Window Class",false,cbg3);

cb2.setBounds(20,300,300,15);

final Checkbox cb3 = new Checkbox("Frame Class",false,cbg3);

cb3.setBounds(20,320,300,15);

final Checkbox cb4 = new Checkbox("Applet Class",false,cbg3);

cb4.setBounds(20,340,300,15);

final Label l4 = new Label("4.Which Listener is used to handle Button class events");

l4.setBounds(20,370,400,15);

final CheckboxGroup cbg4 = new CheckboxGroup();

final Checkbox cc1 = new Checkbox("ActionListener Interface",false,cbg4);

cc1.setBounds(20,390,300,15);

final Checkbox cc2 = new Checkbox("ItemListener Interface",false,cbg4);

cc2.setBounds(20,410,300,15);

final Checkbox cc3 = new Checkbox("WindowListener Interface",false,cbg4);

cc3.setBounds(20,430,300,15);

final Checkbox cc4 = new Checkbox("MouseListener Interface",false,cbg4);

cc4.setBounds(20,450,300,15);

final Label l5 = new Label("5.Which method belongs to MouseMotionListener Interface");

l5.setBounds(20,480,500,15);

final CheckboxGroup cbg5 = new CheckboxGroup();

final Checkbox cd1 = new Checkbox("mouseEntered(MouseEvent me){}",false,cbg5);

cd1.setBounds(20,500,300,15);

final Checkbox cd2 = new Checkbox("mouseDragged(MouseEvent me){}",false,cbg5);

cd2.setBounds(20,520,300,15);

final Checkbox cd3 = new Checkbox("mousePressed(MouseEvent me){}",false,cbg5);

cd3.setBounds(20,540,300,15);

final Checkbox cd4 = new Checkbox("mouseReleased(MouseEvent me){}",false,cbg5);

cd4.setBounds(20,560,300,15);

b1.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

b1.setEnabled(false);

if(c1.getState() == true)

{

c1.setBackground(Color.YELLOW);

}

else if(c2.getState() == true)

{

c2.setBackground(Color.YELLOW);

}

else if(c4.getState() == true)

{

c4.setBackground(Color.YELLOW);

}

c3.setBackground(Color.GREEN);

if(ca1.getState() == true)

{

ca1.setBackground(Color.YELLOW);

}

else if(ca2.getState() == true)

{

ca2.setBackground(Color.YELLOW);

}

else if(ca3.getState() == true)

{

ca3.setBackground(Color.YELLOW);

}

ca4.setBackground(Color.GREEN);

if(cb3.getState() == true)

{

cb3.setBackground(Color.YELLOW);

}

else if(cb2.getState() == true)

{

cb2.setBackground(Color.YELLOW);

}

else if(cb4.getState() == true)

{

cb4.setBackground(Color.YELLOW);

}

cb1.setBackground(Color.GREEN);

if(cc3.getState() == true)

{

cc3.setBackground(Color.YELLOW);

}

else if(cc2.getState() == true)

{

cc2.setBackground(Color.YELLOW);

}

else if(cc4.getState() == true)

{

cc4.setBackground(Color.YELLOW);

}

cc1.setBackground(Color.GREEN);

if(cd3.getState() == true)

{

cd3.setBackground(Color.YELLOW);

}

else if(cb1.getState() == true)

{

cd2.setBackground(Color.YELLOW);

}

else if(cd4.getState() == true)

{

cd4.setBackground(Color.YELLOW);

}

cd2.setBackground(Color.GREEN);

}

});

f.add(l1);f.add(c1);f.add(c2);f.add(c3);f.add(c4);

f.add(l2);f.add(ca1);f.add(ca2);f.add(ca3);f.add(ca4);

f.add(l3);f.add(cb1);f.add(cb2);f.add(cb3);f.add(cb4);

f.add(l4);f.add(cc1);f.add(cc2);f.add(cc3);f.add(cc4);

f.add(l5);f.add(cd1);f.add(cd2);f.add(cd3);f.add(cd4);

f.add(b1);

f.addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

b1.setEnabled(true);

mta4.setEnabled(true);

f.dispose();

}

});

}

});

mta5 = new MenuItem("Python");

mta5.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

mta5.setEnabled(false);

final Frame f = new Frame("Python MCQs");

f.setSize(400,700);

f.setVisible(true);

f.setLayout(null);

final Label l1 = new Label("1.State Output - print(10/2):");

l1.setBounds(20,40,300,15);

final CheckboxGroup cbg1 = new CheckboxGroup();

final Checkbox c1 = new Checkbox("5",false,cbg1);

c1.setBounds(20,60,300,15);

final Checkbox c2 = new Checkbox("1",false,cbg1);

c2.setBounds(20,80,300,15);

final Checkbox c3 = new Checkbox("5.0",false,cbg1);

c3.setBounds(20,100,300,15);

final Checkbox c4 = new Checkbox("1.0",false,cbg1);

c4.setBounds(20,120,300,15);

final JButton b1 = new JButton("Submit");

b1.setForeground(Color.RED);

b1.setBounds(20,590,80,20);

final Label l2 = new Label("2.State which of the following is valid list:");

l2.setBounds(20,150,300,15);

final CheckboxGroup cbg2 = new CheckboxGroup();

final Checkbox ca1 = new Checkbox("a = {1,2,3,4}",false,cbg2);

ca1.setBounds(20,170,300,15);

final Checkbox ca2 = new Checkbox("a = (1,2,3,4)",false,cbg2);

ca2.setBounds(20,190,300,15);

final Checkbox ca3 = new Checkbox("a = 1,2,3,4",false,cbg2);

ca3.setBounds(20,210,300,15);

final Checkbox ca4 = new Checkbox("a = [1,2,3,4]",false,cbg2);

ca4.setBounds(20,230,300,15);

final Label l3 = new Label("3.Who is founder of Python Language:");

l3.setBounds(20,260,300,15);

final CheckboxGroup cbg3 = new CheckboxGroup();

final Checkbox cb1 = new Checkbox("Guido Van Rossum",false,cbg3);

cb1.setBounds(20,280,300,15);

final Checkbox cb2 = new Checkbox("Games Goslin",false,cbg3);

cb2.setBounds(20,300,300,15);

final Checkbox cb3 = new Checkbox("Larry Wall",false,cbg3);

cb3.setBounds(20,320,300,15);

final Checkbox cb4 = new Checkbox("Dennus Ritche",false,cbg3);

cb4.setBounds(20,340,300,15);

final Label l4 = new Label("4.Which Function returns absolute of x:");

l4.setBounds(20,370,300,15);

final CheckboxGroup cbg4 = new CheckboxGroup();

final Checkbox cc1 = new Checkbox("fabs(x)",false,cbg4);

cc1.setBounds(20,390,300,15);

final Checkbox cc2 = new Checkbox("abs(x)",false,cbg4);

cc2.setBounds(20,410,300,15);

final Checkbox cc3 = new Checkbox("ceil(x)",false,cbg4);

cc3.setBounds(20,430,300,15);

final Checkbox cc4 = new Checkbox("floor(x)",false,cbg4);

cc4.setBounds(20,450,300,15);

final Label l5 = new Label("5.To retrieve iterms from dictionary we use \_\_\_\_ function:");

l5.setBounds(20,480,400,15);

final CheckboxGroup cbg5 = new CheckboxGroup();

final Checkbox cd1 = new Checkbox("dict.values()",false,cbg5);

cd1.setBounds(20,500,300,15);

final Checkbox cd2 = new Checkbox("dict.items()",false,cbg5);

cd2.setBounds(20,520,300,15);

final Checkbox cd3 = new Checkbox("dict.keys()",false,cbg5);

cd3.setBounds(20,540,300,15);

final Checkbox cd4 = new Checkbox("dict.fromitems()",false,cbg5);

cd4.setBounds(20,560,300,15);

b1.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

b1.setEnabled(false);

if(c1.getState() == true)

{

c1.setBackground(Color.YELLOW);

}

else if(c2.getState() == true)

{

c2.setBackground(Color.YELLOW);

}

else if(c4.getState() == true)

{

c4.setBackground(Color.YELLOW);

}

c3.setBackground(Color.GREEN);

if(ca1.getState() == true)

{

ca1.setBackground(Color.YELLOW);

}

else if(ca2.getState() == true)

{

ca2.setBackground(Color.YELLOW);

}

else if(ca3.getState() == true)

{

ca3.setBackground(Color.YELLOW);

}

ca4.setBackground(Color.GREEN);

if(cb3.getState() == true)

{

cb3.setBackground(Color.YELLOW);

}

else if(cb2.getState() == true)

{

cb2.setBackground(Color.YELLOW);

}

else if(cb4.getState() == true)

{

cb4.setBackground(Color.YELLOW);

}

cb1.setBackground(Color.GREEN);

if(cc3.getState() == true)

{

cc3.setBackground(Color.YELLOW);

}

else if(cc2.getState() == true)

{

cc2.setBackground(Color.YELLOW);

}

else if(cc4.getState() == true)

{

cc4.setBackground(Color.YELLOW);

}

cc1.setBackground(Color.GREEN);

if(cd3.getState() == true)

{

cd3.setBackground(Color.YELLOW);

}

else if(cb1.getState() == true)

{

cd2.setBackground(Color.YELLOW);

}

else if(cd4.getState() == true)

{

cd4.setBackground(Color.YELLOW);

}

cd2.setBackground(Color.GREEN);

}

});

f.add(l1);f.add(c1);f.add(c2);f.add(c3);f.add(c4);

f.add(l2);f.add(ca1);f.add(ca2);f.add(ca3);f.add(ca4);

f.add(l3);f.add(cb1);f.add(cb2);f.add(cb3);f.add(cb4);

f.add(l4);f.add(cc1);f.add(cc2);f.add(cc3);f.add(cc4);

f.add(l5);f.add(cd1);f.add(cd2);f.add(cd3);f.add(cd4);

f.add(b1);

f.addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

b1.setEnabled(true);

mta5.setEnabled(true);

f.dispose();

}

});

}

});

m3.add(mta1);m3.add(mta2);m3.add(mta3);m3.add(mta4);m3.add(mta5);

Menu m4 = new Menu("Programs");

MenuItem mtb1,mtb5;

mtb1 = new MenuItem("C");

mtb1.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

final Frame f = new Frame("C Programs");

f.setLayout(null);

f.setSize(700,700);

f.setVisible(true);

final CheckboxGroup cbg = new CheckboxGroup();

Font font = new Font("Times New Roman",Font.BOLD|Font.ITALIC,14);

final Checkbox c1 = new Checkbox("Program to print Hello World!",false,cbg);

c1.setBounds(20,40,300,30);

c1.setForeground(Color.RED);

c1.setBackground(Color.YELLOW);

c1.setFont(font);

final Checkbox c2 = new Checkbox("Program to determine no is even or odd!",false,cbg);

c2.setBounds(20,90,300,30);

c2.setForeground(Color.BLUE);

c2.setBackground(Color.YELLOW);

c2.setFont(font);

final Checkbox c3 = new Checkbox("Program to find sum of digits of number!",false,cbg);

c3.setBounds(20,140,300,30);

c3.setForeground(Color.RED);

c3.setBackground(Color.YELLOW);

c3.setFont(font);

final Checkbox c4 = new Checkbox("Program to check number is prime or not!",false,cbg);

c4.setBounds(20,190,300,30);

c4.setForeground(Color.BLUE);

c4.setBackground(Color.YELLOW);

c4.setFont(font);

final Checkbox c5 = new Checkbox("Program to find factorial of 5!",false,cbg);

c5.setBounds(20,240,300,30);

c5.setForeground(Color.RED);

c5.setBackground(Color.YELLOW);

c5.setFont(font);

final ImageIcon icon = new ImageIcon("cl1.png");

final JLabel jl1 = new JLabel(icon);

jl1.setBounds(350,40,300,300);

f.add(jl1);

final ImageIcon icon1 = new ImageIcon("cl2.png");

final ImageIcon icon2 = new ImageIcon("cl3.png");

final ImageIcon icon3 = new ImageIcon("cl4.png");

final ImageIcon icon4 = new ImageIcon("cl5.png");

final ImageIcon icon5 = new ImageIcon("cl6.png");

c1.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon1);

}

});

c2.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon2);

}

});

c3.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon3);

}

});

c4.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon4);

}

});

c5.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon5);

}

});

f.add(c1);f.add(c2);f.add(c3);f.add(c4);f.add(c5);

f.addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

f.dispose();

}

});

}

});

mtb5 = new MenuItem("Python");

mtb5.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

final Frame f = new Frame("Python Programs");

f.setLayout(null);

f.setSize(700,700);

f.setVisible(true);

final CheckboxGroup cbg = new CheckboxGroup();

Font font = new Font("Times New Roman",Font.BOLD|Font.ITALIC,14);

final Checkbox c1 = new Checkbox("Program to print Hello World!",false,cbg);

c1.setBounds(20,40,300,30);

c1.setForeground(Color.BLUE);

c1.setBackground(Color.YELLOW);

c1.setFont(font);

final Checkbox c2 = new Checkbox("Program to determine no is even or odd!",false,cbg);

c2.setBounds(20,90,300,30);

c2.setForeground(Color.RED);

c2.setBackground(Color.YELLOW);

c2.setFont(font);

final Checkbox c3 = new Checkbox("Program to find sum of digits of number!",false,cbg);

c3.setBounds(20,140,300,30);

c3.setForeground(Color.BLUE);

c3.setBackground(Color.YELLOW);

c3.setFont(font);

final Checkbox c4 = new Checkbox("Program to check number is prime or not!",false,cbg);

c4.setBounds(20,190,300,30);

c4.setForeground(Color.RED);

c4.setBackground(Color.YELLOW);

c4.setFont(font);

final Checkbox c5 = new Checkbox("Program to find factorial of 5!",false,cbg);

c5.setBounds(20,240,300,30);

c5.setForeground(Color.BLUE);

c5.setBackground(Color.YELLOW);

c5.setFont(font);

final ImageIcon icon = new ImageIcon("cl1.png");

final JLabel jl1 = new JLabel(icon);

jl1.setBounds(350,40,300,300);

f.add(jl1);

final ImageIcon icon1 = new ImageIcon("dl1.png");

final ImageIcon icon2 = new ImageIcon("dl2.png");

final ImageIcon icon3 = new ImageIcon("dl3.png");

final ImageIcon icon4 = new ImageIcon("dl4.png");

final ImageIcon icon5 = new ImageIcon("dl5.png");

c1.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon1);

}

});

c2.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon2);

}

});

c3.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon3);

}

});

c4.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon4);

}

});

c5.addItemListener(new ItemListener()

{

public void itemStateChanged(ItemEvent ae)

{

jl1.setIcon(icon5);

}

});

f.add(c1);f.add(c2);f.add(c3);f.add(c4);f.add(c5);

f.addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

f.dispose();

}

});

}

});

m4.add(mtb1);m4.add(mtb5);

mb.add(m2);

mb.add(m3);

mb.add(m4);

f.setMenuBar(mb);

f.addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent e)

{

b2.setEnabled(true);

f.dispose();

}

});

}

});

}

else

{

l3.setText("Login Failed...Please Try Again!");

}

}

});

f.addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent e)

{

System.exit(0);

}

});

}

}