

1. Design an applet/application to demonstrate the use of Radio Button and Checkbox.

Code:

```
import java.awt.*;
import java.util.*;

public class RadioDemo
{
    public static void main( String args[] )
    {
        Frame f = new Frame();
        f.setVisible(true);
        f.setSize(400,400);
        f.setLayout(new FlowLayout());

        Label l1 = new Label("Select Subjects:");

        Checkbox cb1 = new Checkbox("English");
        Checkbox cb2 = new Checkbox("Sanskrit");
        Checkbox cb3 = new Checkbox("Hindi");
        Checkbox cb4 = new Checkbox("Marathi");

        Label l2 = new Label("Select Gender:");
        CheckboxGroup cg = new CheckboxGroup();
        Checkbox c1 = new Checkbox("Male",cg,false);
        Checkbox c2 = new Checkbox("Female",cg,false);

        f.add(l1);
        f.add(cb1);
        f.add(cb2);
        f.add(cb3);
        f.add(cb4);
        f.add(l2);
        f.add(c1);
        f.add(c2);
    }
}
```

2. . Design an applet/application to create form using Text Field, Text Area, Button and Label.

Code:

```
import java.awt.*;

public class BasicAWT
{
    public static void main(String args[])
```

```

{
    Frame f = new Frame();
    f.setSize(400,400);
    f.setVisible(true);
    f.setLayout(new FlowLayout() );

    Label l1 = new Label();
    l1.setText("Enter Your Name ");

    TextField tf = new TextField("Atharva");

    Label l2 = new Label("Address");
    TextArea ta = new TextArea("",3,40);

    Button b = new Button("Submit");

    f.add(l1); f.add(tf); f.add(l2); f.add(ta); f.add(b);
}
}

```

3. Develop a program to select multiple languages known to user. (e. g Marathi, Hindi, English, Sanskrit).

Code:

```

import java.awt.*;
class Lan
{
    Lan()
    {
        Frame f=new Frame();
        Label l1=new Label("Select known Languages");
        l1.setBounds(100,50,120,80);
        f.add(l1);
        Checkbox c1=new Checkbox("Marathi");
        c1.setBounds(100,90,50,50);
        f.add(c1);
        Checkbox c2=new Checkbox("Hindi");
        c2.setBounds(100,150,50,50);
        f.add(c2);
        Checkbox c3=new Checkbox("English");
        c3.setBounds(100,200,80,50);
        f.add(c3);
        Checkbox c4=new Checkbox("Sanskrit");
        c4.setBounds(100,250,80,50);
        f.add(c4);
        f.setSize(500,500);
        f.setLayout(null);
    }
}

```

```

f.setVisible(true);
}
public static void main(String ar[])
{
    new Lan();
}
}

```

4. Write a program to create three Buttons with Caption OK, RESET and CANCEL.

Code:

```

import java.awt.*;
class But
{
    But()
    {
        Frame f=new Frame();
        Button b1=new Button("Ok");
        b1.setBounds(100,50,50,50);
        f.add(b1);
        Button b2=new Button("Reset");
        b2.setBounds(100,101,50,50);
        f.add(b2);
        Button b3=new Button("Cancel");
        b3.setBounds(100,150,80,50);
        f.add(b3);
        f.setSize(500,500);
        f.setLayout(null);
        f.setVisible(true);
    }
    public static void main(String a[])
    {
        new But();
    }
}

```

5. Develop applet / application to select multiple names of news papers.

Code:

```

/*
<applet code="News" width=300 height=300></applet>
*/
import java.applet.*;
import java.awt.*;
import java.awt.event.*;
public class News extends Applet
{
    public void init()

```

```

    {
        List l1=new List(10,true);
        l1.setBounds(50,60,100,120);
        l1.add("Times of India");
        l1.add("Cwiedu");
        l1.add("NDTEV");
        l1.add("Gadgets360");
        add(l1);
    }
    setLayout(null);

    }
    public void paint(Graphics g)
    {
        repaint();
    }
}

```

6. Write a program to generate following output:



Code:

```

import java.awt.*;
import java.applet.*;

public class button extends Applet
{
    public void init()
    {
        setLayout(new GridLayout(3,2));
        for(int i=1;i<=5;i++)
        {
            Button b=new Button("Button"+i);
            add(b);
        }
    }
}

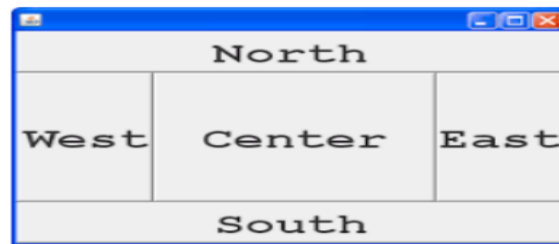
```

```

/*
<applet code="button" width=300 height=300></applet>
*/

```

7. Write a program to generate following output using Border Layout:



Code:

```

import java.awt.*;
import java.applet.*;

public class borderdemo extends Applet
{
    public void init()
    {
        BorderLayout b=new BorderLayout();
        setLayout(b);
        Label l1=new Label("North",Label.CENTER);
        add(l1,BorderLayout.NORTH);

        Label l2=new Label("South",Label.CENTER);
        add(l2,BorderLayout.SOUTH);

        Label l3=new Label("East",Label.CENTER);
        add(l3,BorderLayout.EAST);

        Label l4=new Label("West",Label.CENTER);
        add(l4,BorderLayout.WEST);

        Label l5=new Label("Center",Label.CENTER);
        add(l5,BorderLayout.CENTER);
    }
}

/*
<applet code="borderdemo" width=400 height=400>
</applet>*/

```

8. Write a program which creates Menu of different colors and disable menu item for Black color.

Code:

```
import java.awt.*;
import java.applet.*;

public class menudemo extends Frame
{
    public static void main(String args[])
    {
        menudemo d = new menudemo();
        d.setSize(400,400);
        d.setTitle("exp 5");
        d.setVisible(true);
        MenuBar m = new MenuBar();
        d.setMenuBar(m);
        Menu m1 = new Menu("File");
        m.add(m1);
        MenuItem m2 = new MenuItem("Red");
        m1.add(m2);
        MenuItem m3 = new MenuItem("Green");
        m1.add(m3);

        MenuItem m4 = new MenuItem("Black");
        m1.add(m4);
        m4.setEnabled(false);
    }
}
```

9. Write a program to develop a frame to select the different states of India using JComboBox.

Code:

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

public class jcomboboxdemo1 extends JApplet
{
    public void init()
    {
        Container ct = getContentPane();
        ct.setLayout(new FlowLayout());
    }
}
```

```
JComboBox jc=new JComboBox();
jc.addItem("Maharashtra");
jc.addItem("Karnataka");
jc.addItem("Madhya pradesh");
jc.addItem("Uttarpradesh");
ct.add(jc);
}
}
```

```
/*
<applet code="jcomboboxdemo1" width=500 height=500>
</applet>
*/
```

10. Develop a program to demonstrate the use of ScrollPane in Swings.

Code:

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

```
/*
<applet code="jscrollpane" width=400 height=400>
</applet>*/
```

```
public class jscrollpane extends JApplet
{
    public void start()
    {
        Container ct=getContentPane();
        String s1="This is text area\n"+"displayed in a scroll pane\n"+"appears with horizontal
        and\n"+"vertical scrollbar";
        int h= ScrollPaneConstants.HORIZONTAL_SCROLLBAR_ALWAYS;
        int v= ScrollPaneConstants.VERTICAL_SCROLLBAR_ALWAYS;
        JTextArea j=new JTextArea(s1);
        JScrollPane sp=new JScrollPane(j,v,h);
        ct.add(sp);
    }
}
```

11. Write a Jtree program to show root directory and its subFolders of your System.

Code:

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

/*
<applet code="jtreedemo" width=500 height=500>
</applet>
*/

public class jtreedemo extends JApplet
{
    public void start()
    {
        Container ct=getContentPane();
        ct.setLayout(new BorderLayout());
        DefaultMutableTreeNode root=new DefaultMutableTreeNode("D");

        DefaultMutableTreeNode a=new DefaultMutableTreeNode("AJP");
        root.add(a);

        DefaultMutableTreeNode a1=new DefaultMutableTreeNode("treedemo");
        a.add(a1);

        JTree tree=new JTree(root);
        int v =ScrollPaneConstants.VERTICAL_SCROLLBAR_AS_NEEDED;
        int h=ScrollPaneConstants.HORIZONTAL_SCROLLBAR_AS_NEEDED;
        JScrollPane jsp=new JScrollPane(tree,v,h);
        ct.add(jsp);
    }
}
```


12. Develop a program to accept two numbers and display product of two numbers when user pressed “Multiply” button.

Code:

```
import java.awt.event.*;
import java.awt.event.ActionListener;
import java.awt.*;
import java.applet.*;

public class multiply extends Applet implements ActionListener
{
    Label l1,l2,l3;
    TextField t1,t2,t3;
    Button b1;

    public void init()
    {
        setLayout(new FlowLayout());
        l1=new Label("enter first no:");
        l2=new Label("enter second no:");
        l3=new Label("Multiplication");
        t1=new TextField();
        t2=new TextField();
        t3=new TextField();
        b1=new Button("Multiply");

        add(l1);
        add(l2);
        add(l3);
        add(t1);
        add(t2);
```

```

add(t3);
add(b1);
b1.addActionListener(this);
}

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==b1)
    {
        int n1=Integer.parseInt(t1.getText());
        int n2=Integer.parseInt(t2.getText());
        int n3=n1*n2;
        t3.setText(Integer.toString(n3));
    }
}
}

/*<applet code="multiply" height=400 width=400></applet>*/

```

13. Write a program to change the background color of Applet when user performs events using Mouse.

```

import java.awt.*;
import java.applet.*;
import java.awt.event.*;

public class MouseColor extends Applet implements MouseMotionListener
{
    public void init()
    {
        addMouseMotionListener(this);
    }
}

```

```

public void mouseDragged(MouseEvent me)
{
    setBackground(Color.red);
    repaint();
}

public void mouseMoved(MouseEvent me)
{
    setBackground(Color.green);
    repaint();
}

}
/*
<applet code="MouseColor" width=300 height=300>
</applet>
*/

```

14. Write a program using JTextField to perform the addition of two numbers.

Code:

```

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

public class addition extends JApplet implements ActionListener
{
    JLabel l1,l2,l3;
    JTextField t1,t2,t3;
    JButton b1;
    public void init()
    {

```

```

Container c=getContentPane();
c.setLayout(new GridLayout(4,2));
l1=new JLabel("Enter first No.");
l2=new JLabel("Enter second No.");
l3=new JLabel("Addition");
t1=new JTextField();
t2=new JTextField();
t3=new JTextField();
b1=new JButton("Addition");
c.add(l1);
c.add(t1);
c.add(l2);
c.add(t2);
c.add(l3);
c.add(t3);
c.add(b1);
b1.addActionListener(this);
}
public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==b1)
    {
        int n1=Integer.parseInt(t1.getText());
        int n2=Integer.parseInt(t2.getText());
        int n3=n1+n2;
        t3.setText(Integer.toString(n3));
    }
}
}
/*<Applet code=addition.class height=400 width=400></Applet>*/

```

15. Develop a program using InetAddress class to retrieve IP address of computer when hostname is entered by the user.

Code:

```
import java.io.*;
import java.net.*;

public class InetDemo
{
    public static void main(String[] args)
    {
        try
        {
            InetAddress ip=InetAddress.getByName("localhost");
            System.out.println("Host name:"+ip.getHostName());
            System.out.println("ip address:"+ip.getHostAddress());
        }
        catch(Exception e)
        {
            System.out.println(e);}
    }
}
```

16. Write a program using URL class to retrieve the host, protocol, port and file of URL <http://www.msbte.org.in>.

Code:

```
import java.net.*;

public class URLEDemo
{
    public static void main(String args[])throws MalformedURLException
```

```

{
URL hp=new URL("http://www.msbte.org.in.");
System.out.println("Protocol:"+hp.getProtocol());
System.out.println("Port:"+hp.getPort());
System.out.println("Host:"+hp.getHost());
System.out.println("File:"+hp.getFile());
}
}

```

17.Develop a java program to insert employee data in the mysql table having two columns “emp_id” and “emp_name”.

Code:

```

package exp18;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;

public class exp18 {

    public static void main(String[] args) {
        Connection conn = null;
        Statement stmt = null;
        try {
            try {
                Class.forName("com.mysql.cj.jdbc.Driver");
            } catch (Exception e) {
                System.out.println(e);
            }
        }
    }
}

```

```

        conn = (Connection) DriverManager.getConnection("jdbc:mysql://localhost/anuradha",
"root", "root");

        System.out.println("Connection is created successfully:");

        stmt = (Statement) conn.createStatement();

        String query1 = "INSERT INTO Employee " + "VALUES (1, 'John')";

        ((java.sql.Statement) stmt).executeUpdate(query1);

        query1 = "INSERT INTO Employee " + "VALUES (2, 'Carol')";

        ((java.sql.Statement) stmt).executeUpdate(query1);

        System.out.println("Record is inserted in the table successfully.....");

    } catch (SQLException excep) {

        excep.printStackTrace();

    } catch (Exception excep) {

        excep.printStackTrace();

    } finally {

        try {

            if (stmt != null)

                conn.close();

        } catch (SQLException se) {}

        try {

            if (conn != null)

                conn.close();

        } catch (SQLException se) {

            se.printStackTrace();

        }

    }

    System.out.println("Please check it in the MySQL Table..... ");

}}

```