ASSIGNMENT-13

20BCSE50_Kumar Jijnasu_CSE_C1-08

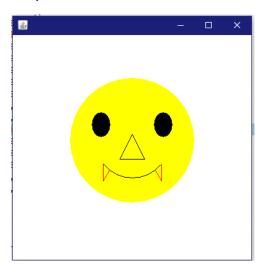
```
1...
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
public class MyAWT extends JFrame implements ActionListener
{
    JTextField t1,t2;
    JLabel 11,12;
    JButton b;
    MyAWT()
        super("MyFrame");
        t1 = new JTextField();
        t2 = new JTextField();
        11 = new JLabel("Enter your Name: ");
        12 = new JLabel("Output: ");
        b = new JButton("Click Here");
        11.setBounds(70, 80, 150, 20);
        t1.setBounds(70,100,150,20);
        12.setBounds(70, 130, 150, 20);
        t2.setBounds(70,150,150,20);
        b.setBounds(100,200,100,50);
        b.addActionListener(this);
        add(11);
        add(t1);
        add(12);
        add(t2);
        add(b);
        setSize(400,400);
        setLayout(null);
        setVisible(true);
        this.addWindowListener(new WindowAdapter()
        {
            @Override
            public void windowClosing(WindowEvent e) {
                System.exit(0);
            }
        });
    }
```

```
public void actionPerformed(ActionEvent e)
    {
        String s1 = t1.getText();
        if(e.getSource()==b)
            t2.setText("My Name: "+s1);
    }
    public static void main(String[] args) {
        new MyAWT();
    }
}
2..
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
public class MySmiley extends JFrame// implements ActionListener
{
    MySmiley()
        // Graph
        this.addWindowListener(new WindowAdapter()
        {
            @Override
            public void windowClosing(WindowEvent e) {
                System.exit(0);
            }
        });
        setSize(400,400);
        setVisible(true);
    }
    @Override
    public void paint(Graphics g) {
        g.setColor(Color.yellow);
        g.fillOval(100, 100, 200, 200);
        g.setColor(Color.black);
        g.filloval(135, 155, 30, 40);
        g.fillOval(235, 155, 30, 40);
        g.drawLine(200, 190, 180, 230);
        g.drawLine(200, 190, 220, 230);
        g.drawLine(180, 230, 220, 230);
        g.drawArc(140, 140, 120, 120, 220, 100);
```

```
int x[] = {153,163,153}, y[] = {238,248,238};
    g.drawLine(153, 238, 153, 265);
    g.drawLine(163, 248, 153, 265);
    g.setColor(Color.red);
    g.fillPolygon(x,y,3);
    g.drawLine(400-153, 238, 400-153, 265);
    g.drawLine(400-163, 248, 400-153, 265);
}

public static void main(String[] args) {
    new MySmiley();
}
```

Output:



```
3..
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class ChangeColor extends JFrame implements ActionListener{
    JTextField text = new JTextField("COLOR CHANGING PROGRAM !");
    JButton red,green,blue,red2,green2,blue2;
    ChangeColor(){

        text.setBounds(50, 100, 300, 20);

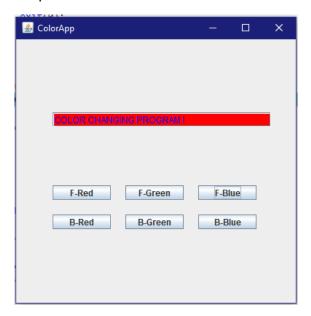
        red2 = new JButton("B-Red");
        green2 = new JButton("B-Green");
        blue2 = new JButton("B-Blue");
        red = new JButton("F-Red");
        green = new JButton("F-Red");
```

```
blue = new JButton("F-Blue");
    red.setBounds(50, 200, 80, 20);
    green.setBounds(120+30, 200, 80, 20);
    blue.setBounds(190+60, 200, 80, 20);
    red2.setBounds(50, 240, 80, 20);
    green2.setBounds(120+30, 240, 80, 20);
    blue2.setBounds(190+60, 240, 80, 20);
    red.addActionListener(this);
    green.addActionListener(this);
    blue.addActionListener(this);
    red2.addActionListener(this);
    green2.addActionListener(this);
    blue2.addActionListener(this);
    add(text);
    add(red);
    add(blue);
    add(green);
    add(red2);
    add(blue2);
    add(green2);
    this.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent e){
            System.exit(0);
        }
    });
    setTitle("ColorApp");
    setSize(400,400);
    setLayout(null);
    setVisible(true);
public void actionPerformed(ActionEvent e) {
    if(e.getSource() == red2){
        text.setBackground(Color.red);
    }
    else if(e.getSource() == green2){
        text.setBackground(Color.green);
    }
    else if(e.getSource() == blue2){
```

}

```
text.setBackground(Color.blue);
      }
      if(e.getSource() == red){
            text.setForeground(Color.red);
        }
        else if(e.getSource() == green){
            text.setForeground(Color.green);
        }
        else if(e.getSource() == blue){
            text.setForeground(Color.blue);
      }
    }
   public static void main(String[] args) {
        new ChangeColor();
    }
}
```

Output:



```
4..
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
// import javax.swing.plaf.basic.BasicInternalFrameTitlePane.CloseAction;
// import javax.swing.text.AttributeSet.ColorAttribute;

public class CalculatorApp extends JFrame implements ActionListener
{
    JTextField t;
```

```
JButton b1,b2,b3,b4,b5,b6,b7,b8,b9,b0,bp,bm,bi,bd,bdot,be,back,clr;
String s="";
char opr='a';
double x,y,res,var,temp=0,xdone=0;
CalculatorApp()
{
    int lm=50, ld=40, ll=60, lh=30, lbw=50; // l=500, b=500,
    t = new JTextField();
    b1 = new JButton("1");
    b2 = new JButton("2");
    b3 = new JButton("3");
    b4 = new JButton("4");
    b5 = new JButton("5");
    b6 = new JButton("6");
    b7 = new JButton("7");
    b8 = new JButton("8");
    b9 = new JButton("9");
    b0 = new JButton("0");
    bp = new JButton("+");
    bm = new JButton("-");
    bi = new JButton("X");
    bd = new JButton("/");
    bdot = new JButton(".");
    be = new JButton("=");
    back = new JButton("back");
    clr = new JButton("AC");
    t.setBounds(lm, lm, l1*3+lbw, lh);
    back.setBounds(lm, lm+ld, lbw+ll, lh);
    clr.setBounds(lm+l1*2, lm+ld, lbw+ll, lh);
    b1.setBounds(lm, lm+ld*2, lbw, lh);
    b2.setBounds(lm+ll, lm+ld*2, lbw, lh);
    b3.setBounds(lm+l1*2, lm+ld*2, lbw, lh);
    bp.setBounds(lm+11*3, lm+1d*2, lbw, lh);
    b4.setBounds(lm, lm+ld*3, lbw, lh);
    b5.setBounds(lm+ll, lm+ld*3, lbw, lh);
    b6.setBounds(lm+l1*2, lm+ld*3, lbw, lh);
    bm.setBounds(lm+11*3, lm+ld*3, lbw, lh);
    b7.setBounds(lm, lm+ld*4, lbw, lh);
    b8.setBounds(lm+ll, lm+ld*4, lbw, lh);
    b9.setBounds(lm+11*2, lm+ld*4, lbw, lh);
    bi.setBounds(lm+l1*3, lm+ld*4, lbw, lh);
```

```
bdot.setBounds(lm, lm+ld*5, lbw, lh);
        b0.setBounds(lm+ll, lm+ld*5, lbw, lh);
        be.setBounds(lm+ll*2, lm+ld*5, lbw, lh);
        bd.setBounds(lm+ll*3, lm+ld*5, lbw, lh);
        add(t); add(b1); add(b2); add(b3); add(b4); add(b5); add(b6); add(b7);
                                                                                       add(b8
); add(b9); add(bp); add(bm); add(bi); add(bdot); add(b0); add(be); add(bd); add(bac
k); add(clr);
        t.addActionListener(this);
        b1.addActionListener(this);
        b2.addActionListener(this);
        b3.addActionListener(this);
        b4.addActionListener(this);
        b5.addActionListener(this);
        b6.addActionListener(this);
        b7.addActionListener(this);
        b8.addActionListener(this);
        b9.addActionListener(this);
        bp.addActionListener(this);
        bm.addActionListener(this);
        bi.addActionListener(this);
        bdot.addActionListener(this);
        b0.addActionListener(this);
        be.addActionListener(this);
        bd.addActionListener(this);
        back.addActionListener(this);
        clr.addActionListener(this);
        setSize(lm*2+l1*4,lm*2+l1*5);
        setLayout(null);
        setVisible(true);
       // this.setBackground(Color.black);
       // setBackground(Color.black);
        getContentPane().setBackground(Color.darkGray);
        this.addWindowListener(new WindowAdapter(){
            @Override
            public void windowClosing(WindowEvent e) {
                System.exit(0);
            }
       });
    }
```

```
public void actionPerformed(ActionEvent e) {
    if(e.getSource()==b1){
        s = s+"1";
        t.setText(s);
    }
    if(e.getSource()==b2){
        s = s+"2";
        t.setText(s);
    }
    if(e.getSource()==b3){
        s = s + "3";
        t.setText(s);
    }
    if(e.getSource()==b4){
        s = s+"4";
        t.setText(s);
    }
    if(e.getSource()==b5){
        s = s + "5";
        t.setText(s);
    }
    if(e.getSource()==b6){
        s = s + "6";
        t.setText(s);
    }
    if(e.getSource()==b7){
        s = s + "7";
        t.setText(s);
    }
    if(e.getSource()==b8){
        s = s+"8";
        t.setText(s);
    }
    if(e.getSource()==b9){
        s = s+"9";
        t.setText(s);
    }
    if(e.getSource()==b0){
        s = s+"0";
        t.setText(s);
    }
    if(e.getSource()==bdot){
        s = s+".";
        t.setText(s);
    }
    if(e.getSource()==bp){operate(opr);opr = '+';}
    if(e.getSource()==bm){operate(opr);opr = '-';}
    if(e.getSource()==bi){operate(opr);opr = '*';}
    if(e.getSource()==bd){operate(opr);opr = '/';}
    if(e.getSource()==be){operate(opr);xdone = 0;}
```

```
if(e.getSource()==back){    s = t.getText();    s=s.substring(0, s.length()-
1); t.setText(s);}
        if(e.getSource()==clr){t.setText("");s="";xdone = 0;}
    }
    int operate(char opr)
    {
        if(xdone==0)
            s = t.getText();
            x = Double.parseDouble(s);
            xdone = 1;
            s = "";
            t.setText(s);
        }
        else
        {
            y = Double.parseDouble(s);
            if(opr=='+')
                x += y;
            else if(opr=='-')
                x -= y;
            else if(opr=='*')
                x *= y;
            else if(opr=='/')
                if(y==0)
                {
                    t.setText("Undefined...");
                    return 0;
                }
                else
                    x /= y;
            else
            {
                t.setText("Invalid operator...");
                return 0;
            }
            s = Double.toString(x);
            t.setText(s);
            s = "";
        }
        return 0;
    public static void main(String[] args) {
        new CalculatorApp();
    }
}
```

Output:



5..

```
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
class FormSwing extends JFrame implements ActionListener{
    JLabel 11,12,13,14,15,16,17,18,a,b,f;
    JTextField tf1,tf2,tf3,tf4,tf5,tf6,tf7;
    JButton d;
    FormSwing(){
        a=new JLabel();
        a.setBounds(160,330,300,20);
        b=new JLabel();
        b.setBounds(160,350,300,20);
        f=new JLabel();
        f.setBounds(160,370,300,20);
        11=new JLabel("REGISTRATION FORM: ");
        11.setBounds(50,10,150,30);
        12=new JLabel("FIRST NAME: ");
        12.setBounds(40,50,120,20);
        tf1=new JTextField();
        tf1.setBounds(40,70,120,30);
        13=new JLabel("MIDDLE NAME: ");
        13.setBounds(170,50,120,20);
        tf2=new JTextField();
        tf2.setBounds(170,70,120,30);
```

```
14=new JLabel("LAST NAME: ");
14.setBounds(300,50,120,20);
tf3=new JTextField();
tf3.setBounds(300,70,120,30);
15=new JLabel("Date: ");
15.setBounds(40,120,120,20);
tf4=new JTextField();
tf4.setBounds(40,140,120,30);
16=new JLabel("Month: ");
16.setBounds(170,120,120,20);
tf5=new JTextField();
tf5.setBounds(170,140,120,30);
17=new JLabel("Year: ");
17.setBounds(300,120,120,20);
tf6=new JTextField();
tf6.setBounds(300,140,120,30);
18=new JLabel("Sex: ");
18.setBounds(40,190,120,20);
tf7=new JTextField();
tf7.setBounds(40,210,120,30);
d=new JButton("Show");
d.setBounds(185,250,90,50);
d.addActionListener(this);
Container c= this.getContentPane();
c.add(tf1);
c.add(tf2);
c.add(tf3);
c.add(tf4);
c.add(tf5);
c.add(tf6);
c.add(tf7);
c.add(d);
c.add(l1);
c.add(12);
c.add(13);
c.add(14);
c.add(15);
c.add(16);
c.add(17);
c.add(18);
c.add(a);
c.add(b);
```

```
c.add(f);
    setSize(500,500);
    setLayout(null);
    setVisible(true);
   this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}
public void actionPerformed(ActionEvent e){
    String s1=tf1.getText();
    String s2=tf2.getText();
    String s3=tf3.getText();
    String s4=tf4.getText();
    String s5=tf5.getText();
    String s6=tf6.getText();
    String s7=tf7.getText();
    if(e.getSource()==d){
        String result1="My name is "+s1+" "+s2+" "+s3;
        a.setText(result1);
        String result2="Dob- "+s4+"/"+s5+"/"+s6;
        b.setText(result2);
        String result3="Sex- "+s7;
        f.setText(result3);
    }
}
public static void main(String args[]){
    new FormSwing();
}
```

}