

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

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

```
import javax.swing.JOptionPane;
```

```
public class Puzzle extends Frame implements ActionListener{
```

```
    Button btn1,btn2,btn3,btn4,btn5,btn6,btn7,btn8,btn9;
```

```
    Puzzle(){
```

```
        super("Puzzle - JavaTpoint");
```

```
        btn1=new Button("1");
```

```
        btn1.setBounds(50,100,40,40);
```

```
        btn2=new Button("2");
```

```
        btn2.setBounds(100,100,40,40);
```

```
        btn3=new Button("3");
```

```
        btn3.setBounds(150,100,40,40);
```

```
        btn4=new Button("4");
```

```
        btn4.setBounds(50,150,40,40);
```

```
btn5=new Button("5");
```

```
btn5.setBounds(100,150,40,40);
```

```
btn6=new Button("6");
```

```
btn6.setBounds(150,150,40,40);
```

```
btn7=new Button("7");
```

```
btn7.setBounds(50,200,40,40);
```

```
btn8=new Button("");
```

```
btn8.setBounds(100,200,40,40);
```

```
btn9=new Button("8");
```

```
btn9.setBounds(150,200,40,40);
```

```
btn1.addActionListener(this);
```

```
btn2.addActionListener(this);
```

```
btn3.addActionListener(this);
```

```
btn4.addActionListener(this);
```

```
btn5.addActionListener(this);
```

```
btn6.addActionListener(this);
```

```
btn7.addActionListener(this);
```

```
btn8.addActionListener(this);
```

```
btn9.addActionListener(this);
```

```
add(btn1);add(btn2);add(btn3);add(btn4);add(btn5);add(btn6);add(btn7);add(btn8);add(btn9);
```

```
setSize(400,400);
```

```
setLayout(null);
```

```
setVisible(true);
```

```
}
```

```
public void actionPerformed(ActionEvent e){
```

```
    if(e.getSource()==btn1){
```

```
        String label=btn1.getLabel();
```

```
if(btn2.getLabel().equals("")){

    btn2.setLabel(label);

    btn1.setLabel("");

}

if(btn4.getLabel().equals("")){

    btn4.setLabel(label);

    btn1.setLabel("");

}

}
```

```
if(e.getSource()==btn2){

    String label=btn2.getLabel();

    if(btn1.getLabel().equals("")){

        btn1.setLabel(label);

        btn2.setLabel("");

    }

}
```

```
}
```

```
if(btn3.getLabel().equals("")){
```

```
    btn3.setLabel(label);
```

```
    btn2.setLabel("");
```

```
}
```

```
if(btn5.getLabel().equals("")){
```

```
    btn5.setLabel(label);
```

```
    btn2.setLabel("");
```

```
}
```

```
}
```

```
if(e.getSource()==btn3){
```

```
    String label=btn3.getLabel();
```

```
    if(btn2.getLabel().equals("")){
```

```
        btn2.setLabel(label);
```

```
        btn3.setLabel("");
```

```
}
```

```
if(btn6.getLabel().equals("")){
```

```
    btn6.setLabel(label);
```

```
    btn3.setLabel("");
```

```
}
```

```
}
```

```
if(e.getSource()==btn4){
```

```
    String label=btn4.getLabel();
```

```
    if(btn1.getLabel().equals("")){
```

```
        btn1.setLabel(label);
```

```
        btn4.setLabel("");
```

```
}
```

```
if(btn7.getLabel().equals("")){
```

```
    btn7.setLabel(label);
```

```
        btn4.setLabel("");

    }

    if(btn5.getLabel().equals("")){

        btn5.setLabel(label);

        btn4.setLabel("");

    }

}
```

```
if(e.getSource()==btn5){

    String label=btn5.getLabel();

    if(btn2.getLabel().equals("")){

        btn2.setLabel(label);

        btn5.setLabel("");

    }

}
```

```
if(btn6.getLabel().equals("")){

    btn6.setLabel(label);

}
```

```
        btn5.setLabel("");

    }

    if(btn4.getLabel().equals("")){

        btn4.setLabel(label);

        btn5.setLabel("");

    }

    if(btn8.getLabel().equals("")){

        btn8.setLabel(label);

        btn5.setLabel("");

    }

}

if(e.getSource()==btn6){

    String label=btn6.getLabel();

    if(btn9.getLabel().equals("")){
```



```
btn9.setLabel(label);
```

```
btn6.setLabel("");
```

```
}
```

```
if(btn3.getLabel().equals("")){
```

```
    btn3.setLabel(label);
```

```
    btn6.setLabel("");
```

```
}
```

```
if(btn5.getLabel().equals("")){
```

```
    btn5.setLabel(label);
```

```
    btn6.setLabel("");
```

```
}
```

```
}
```

```
if(e.getSource()==btn7){
```

```
    String label=btn7.getLabel();
```

```
    if(btn4.getLabel().equals("")){
```

```
btn4.setLabel(label);
```

```
btn7.setLabel("");
```

```
}
```

```
if(btn8.getLabel().equals("")){
```

```
    btn8.setLabel(label);
```

```
    btn7.setLabel("");
```

```
}
```

```
}
```

```
if(e.getSource()==btn8){
```

```
    String label=btn8.getLabel();
```

```
    if(btn9.getLabel().equals("")){
```

```
        btn9.setLabel(label);
```

```
        btn8.setLabel("");
```

```
}
```

```
if(btn7.getLabel().equals("")){
```

```
    btn7.setLabel(label);
```

```
    btn8.setLabel("");
```

```
}
```

```
if(btn5.getLabel().equals("")){
```

```
    btn5.setLabel(label);
```

```
    btn8.setLabel("");
```

```
}
```

```
}
```

```
if(e.getSource()==btn9){
```

```
    String label=btn9.getLabel();
```

```
    if(btn6.getLabel().equals("")){
```

```
        btn6.setLabel(label);
```

```
        btn9.setLabel("");
```

```
}
```

```
if(btn8.getLabel().equals("")){

    btn8.setLabel(label);

    btn9.setLabel("");

}

}

//congrats code

if(btn1.getLabel().equals("1")&&btn2.getLabel().equals("2")&&btn3.getLabel()

    .equals("3")&&btn4.getLabel().equals("4")&&btn5.getLabel().equals("5")

    &&btn6.getLabel().equals("6")&&btn7.getLabel().equals("7")&&btn8.getLabel()

    .equals("8")&&btn9.getLabel().equals("")){

    JOptionPane.showMessageDialog(this,"Congratulations! You won.");

}

}
```

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

```
    new Puzzle();
```

```
}
```

```
}
```