Future University in Egypt
Faculty of Computers and Information Technology
Department of Computer Science



Design XO GUI

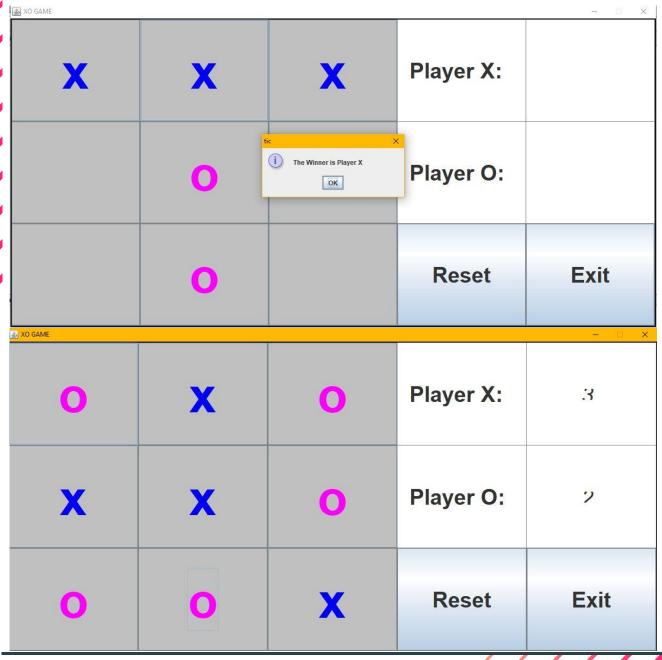
TA: Mariem Ali

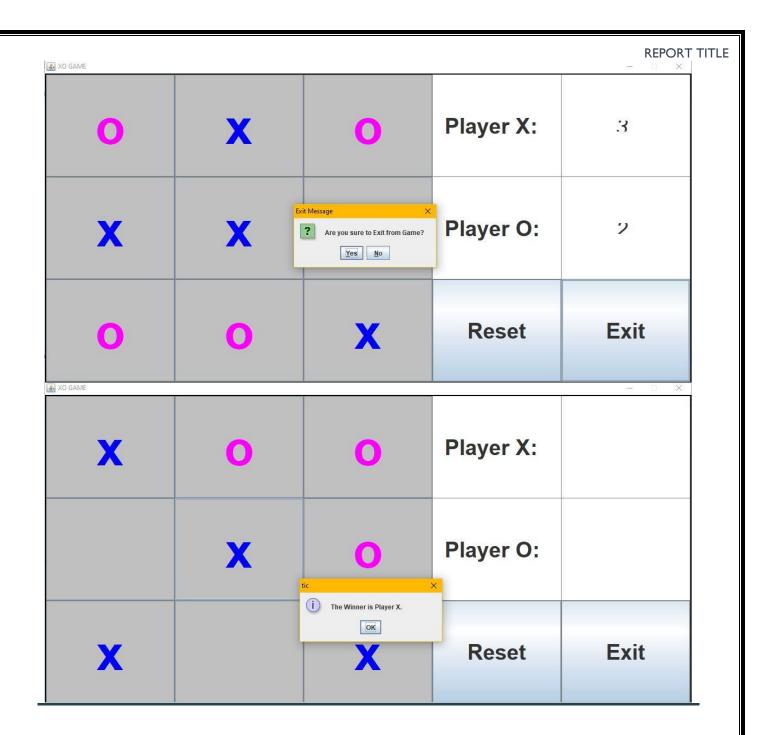
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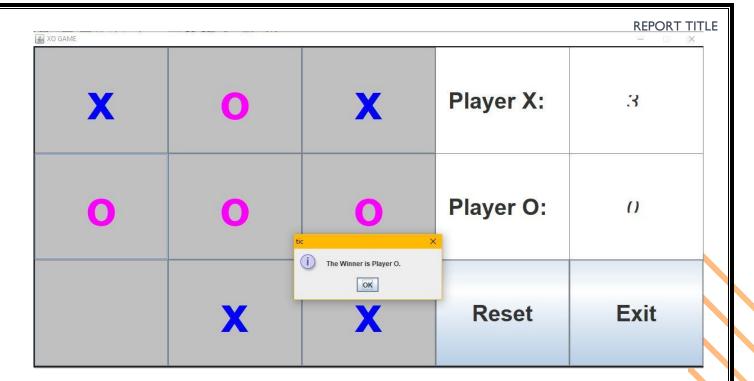
SP21 - Advanced Programming (Spring 2021 - CS224 & CSC 224 | Practical)

Mohamed Mahmoud Elbadri 20194841 Hazim Mohsen Elkholi 20192387 Sohila Maumon Mostafa 20182619 Maryam Emad Abdelmaksoud 20182164









CODE

```
package javaapplication 92;
public class JavaApplication92 {
  public static void main(String[] args) {
      XO xo=new XO();
  }
}
package javaapplication92;
import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;
public class XO extends JFrame {
     actions a=new actions();
  JPanel
pba,p1,p2,p3,p4,p5,p6,p7,p8,p9,p10,p11,p12,p13,
p14,p15;
  |Label
11,12,13,14,15,16,17,18,19,110,111,112,113,114,115,116,117
,118,119;
  JButton b1,b2,b3,b4,b5,b6,b7,b8,b9,b10,b11;
  private int countx=0;
  private int counto=0;
  private String player_start="x";
  public XO(){
     pba=new JPanel();
     pl=new JPanel();
     p2=new JPanel();
     p3=new |Panel();
     p4=new JPanel();
     p5=new |Panel();
     p6=new JPanel();
     p7=new [Panel();
     p8=new JPanel();
     p9=new JPanel();
```

```
p10=new |Panel();
  pll=new JPanel();
  p12=new JPanel();
  p13=new |Panel();
  p14=new JPanel();
  p I 5=new JPanel();
  II=new |Label();
  12=new |Label();
  13=new |Label();
  I4=new JLabel(" Player X: ");
  I5=new [Label();
  l6=new |Label();
  17=new JLabel();
  l8=new |Label();
  19=new JLabel(" Player O: ");
  II0=new |Label();
  II I = new JLabel();
  II2=new |Label();
  113=new JLabel();
  II4=new JLabel();
  115=new |Label();
  bl=new JButton();
  b2=new |Button();
  b3=new JButton();
  b4=new |Button();
  b5=new JButton();
  b6=new |Button();
  b7=new JButton();
  b8=new |Button();
  b9=new |Button();
  b10=new |Button("Reset");
  bll=new JButton("Exit");
  display();
private void score(){
  I5.setText(Integer.toString( countx ));
  IIO.setText(Integer.toString( counto ));
private void choose_player(){
  if(player start=="x"){
     player_start="o";
  }
  else{
     player start="x";
private void who_win(){
```

```
if(b \mid J.getText() = = "x" \& b 2.getText() = = "x" \& b 3.g
etText()=="x"){
                                                IOptionPane.showMessageDialog(this,
 "The Winner is Player X",
 "tic", |OptionPane.INFORMATION MESSAGE);
                                                 countx++;
                                                score();
                                }
if(b I.getText()=="o"\&\&b2.getText()=="o"\&\&b3.
getText()=="o"){
                                               |OptionPane.showMessageDialog(this,
 "The Winner is Player O",
 "tic", |OptionPane.INFORMATION MESSAGE);
                                                 counto++;
                                                score();
                                }
if(b4.getText()=="x"\&\&b5.getText()=="x"\&\&b6.getText()=="x"\&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getText()=="x"&\&b6.getTe
etText()=="x"){
                                                IOptionPane.showMessageDialog(this,
 "The Winner is Player X",
 "tic", |OptionPane.INFORMATION MESSAGE);
                                                 countx++;
                                                score();
                                }
if(b4.getText()=="o"&&b5.getText()=="o"&&b6.
getText()=="o"){
                                                JOptionPane.showMessageDialog(this,
 "The Winner is Player O.",
 "tic", JOptionPane. INFORMATION_MESSAGE);
                                                counto++;
                                                 score();
                                }
if(b7.getText()=="x"\&\&b8.getText()=="x"\&\&b9.getText()=="x"\&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getText()=="x"&\&b9.getTe
etText()=="x"){
```

```
IOptionPane.showMessageDialog(this,
"The Winner is Player X.",
"tic", JOptionPane. INFORMATION_MESSAGE);
                          countx++;
                          score();
                 }
if(b7.getText()=="o"\&\&b8.getText()=="o"\&\&b9.
getText()=="o"){
                         JOptionPane.showMessageDialog(this,
"The Winner is Player O.",
"tic", JOptionPane. INFORMATION MESSAGE);
                          counto++;
                          score();
                 }
if(b \mid J.getText() = = "x" \& b 4.getText() = = "x" \& b 7.getText() = = "x" \& b 7.getText() = = "x" \& b 8.getText() = = "x" & b 8.getText() = = "x" &
etText()=="x"){
                         JOptionPane.showMessageDialog(this,
"The Winner is Player X.",
"tic", JOptionPane. INFORMATION MESSAGE);
                         countx++;
                         score();
if(b I.getText()=="o"&&b4.getText()=="o"&&b7.
getText()=="o"){
                               JOptionPane.showMessageDialog(this,
"The Winner is Player O.",
"tic", JOptionPane. INFORMATION MESSAGE);
                          counto++;
                         score();
                       }
if(b2.getText()=="x"\&\&b5.getText()=="x"\&\&b8.g")
etText()=="x"){
                         |OptionPane.showMessageDialog(this,
"The Winner is Player X.",
"tic", |OptionPane. INFORMATION MESSAGE);
                          countx++;
                          score();
```

```
if(b2.getText()=="o"\&\&b5.getText()=="o"\&\&b8.
getText()=="o"){
                        IOptionPane.showMessageDialog(this,
"The Winner is Player O.",
"tic", |OptionPane. INFORMATION MESSAGE);
                         counto++;
                         score();
                    }
if(b3.getText()=="x"&&b6.getText()=="x"&&b9.g
etText()=="x"){
                        IOptionPane.showMessageDialog(this,
"The Winner is Player X.",
"tic", |OptionPane.INFORMATION MESSAGE);
                         countx++;
                        score();
if(b3.getText()=="o"&&b6.getText()=="o"&&b9.
getText()=="o"){
                        JOptionPane.showMessageDialog(this,
"The Winner is Player O.",
"tic", JOptionPane. INFORMATION MESSAGE);
                        counto++;
                        score();
if(b \mid J.getText() = = "x" \& b 5.getText() = = "x" \& b 9.getText() = = "x" \& b 1.getText() = = "x" & b 1.getText() = = "x" &
etText()=="x"){
                      JOptionPane.showMessageDialog(this,
"The Winner is Player X.",
"tic", JOptionPane. INFORMATION_MESSAGE);
                         countx++;
                         score();
                  }
if(b \mid J.getText() = = "o" \& b 5.getText() = = "o" \& b 9.
getText()=="o"){
                      IOptionPane.showMessageDialog(this,
"The Winner is Player O.",
"tic", JOptionPane. INFORMATION MESSAGE);
                        counto++;
                         score();
```

```
}
if(b3.getText()=="x"\&\&b5.getText()=="x"\&\&b7.getText()=="x"\&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getText()=="x"&\&b7.getTe
etText()=="x"){}
                         IOptionPane.showMessageDialog(this,
"The Winner is Player X.",
"tic", |OptionPane. | INFORMATION MESSAGE);
                         countx++;
                         score();
                     }
if(b3.getText()=="o"&&b5.getText()=="o"&&b7.
getText()=="o"){
                       |OptionPane.showMessageDialog(this,
"The Winner is Player O.",
"tic", |OptionPane.INFORMATION MESSAGE);
                         counto++;
                         score();
        }
        public void display(){
                 this.setTitle("XO GAME");
                this.setSize(1200, 600);
                this.setResizable(false);
                this.setVisible(true);
this.setDefaultCloseOperation(JFrame.EXIT O
N CLOSE);
                 pba.setBackground(Color.GRAY);
pba.setBorder(BorderFactory.createLineBorder(
Color.BLACK, 2));
                 I4.setFont(new
Font("tim I",Font.BOLD,40));
                 19.setFont(new
Font("tim I",Font.BOLD,40));
                 I5.setFont(new
Font("tim I",Font.ITALIC,40));
                 II0.setFont(new
Font("tim I",Font.ITALIC,40));
                 b10.setFont(new
Font("tim I", Font. BOLD, 40));
                 bll.setFont(new
Font("tim1",Font.BOLD,40));
                 bl.setFont(new
Font("tim I", Font. BOLD, 90));
```

```
b2.setFont(new
Font("tim I",Font.BOLD,90));
     b3.setFont(new
Font("tim I", Font. BOLD, 90));
     b4.setFont(new
Font("tim I", Font. BOLD, 90));
     b5.setFont(new
Font("tim I", Font. BOLD, 90));
     b6.setFont(new
Font("tim I",Font.BOLD,90));
     b7.setFont(new
Font("tim I", Font. BOLD, 90));
     b8.setFont(new
Font("tim I",Font.BOLD,90));
     b9.setFont(new
Font("tim I",Font.BOLD,90));
   pl.setLayout(new BorderLayout());
   pl.setBackground(Color.WHITE);
   p2.setLayout(new BorderLayout());
   p2.setBackground(Color.WHITE);
   p3.setLayout(new BorderLayout());
   p3.setBackground(Color.WHITE);
   p4.setLayout(new BorderLayout());
   p4.setBackground(Color.WHITE);
   p5.setLayout(null);
   15.setBounds(100, 85, 30, 20);
   p5.setBackground(Color.WHITE);
   p6.setLayout(new BorderLayout());
   p6.setBackground(Color.WHITE);
   p7.setLayout(new BorderLayout());
   p7.setBackground(Color.WHITE);
   p8.setLayout(new BorderLayout());
   p8.setBackground(Color.WHITE);
   p9.setLayout(new BorderLayout());
   p9.setBackground(Color.WHITE);
   p10.setLayout(null);
   110.setBounds(100, 85, 30, 20);
   p10.setBackground(Color.WHITE);
   pll.setLayout(new BorderLayout());
   pll.setBackground(Color.WHITE);
   p12.setLayout(new BorderLayout());
   p12.setBackground(Color.WHITE);
   p13.setLayout(new BorderLayout());
   p13.setBackground(Color.WHITE);
   p14.setLayout(new BorderLayout());
   p14.setBackground(Color.WHITE);
   p15.setLayout(new BorderLayout());
   p15.setBackground(Color.WHITE);
    b1.setBackground(Color.LIGHT GRAY);
```

```
b2.setBackground(Color.LIGHT GRAY);
b3.setBackground(Color.LIGHT GRAY);
b4.setBackground(Color.LIGHT_GRAY);
b5.setBackground(Color.LIGHT GRAY);
b6.setBackground(Color.LIGHT GRAY);
b7.setBackground(Color.LIGHT GRAY);
b8.setBackground(Color.LIGHT GRAY);
b9.setBackground(Color.LIGHT GRAY);
pba.setLayout(new GridLayout(3,5,1,1));
 pl.add(II);
 pl.add(bl);
 pba.add(p1);
 p2.add(l2);
 p2.add(b2);
 pba.add(p2);
 p3.add(l3);
 p3.add(b3);
 pba.add(p3);
 p4.add(I4,BorderLayout.CENTER);
 pba.add(p4);
p5.add(I5,BorderLayout.CENTER);
pba.add(p5);
p6.add(l6);
p6.add(b4);
 pba.add(p6);
 p7.add(I7);
 p7.add(b5);
 pba.add(p7);
 p8.add(l8);
 p8.add(b6);
 pba.add(p8);
 p9.add(I9,BorderLayout.CENTER);
 pba.add(p9);
 p10.add(I10,BorderLayout.CENTER);
 pba.add(p10);
 pll.add(III);
 p11.add(b7);
 pba.add(pll);
 p12.add(112);
 p12.add(b8);
 pba.add(p12);
 p13.add(113);
 p13.add(b9);
 pba.add(p13);
 p14.add(114);
 p14.add(b10);
 pba.add(p14);
 p15.add(115);
 pI5.add(bII);
```

```
pba.add(p15);
     this.add(pba);
     b10.addActionListener(a);
     bll.addActionListener(a);
     bl.addActionListener(a);
     b2.addActionListener(a);
     b3.addActionListener(a);
     b4.addActionListener(a);
     b5.addActionListener(a);
     b6.addActionListener(a);
     b7.addActionListener(a);
     b8.addActionListener(a);
     b9.addActionListener(a);
  private class actions implements
ActionListener{
     @Override
     public void actionPerformed(ActionEvent
e) {
       JFrame fram;
        if(e.getSource()==bll){
          fram=new JFrame();
          if(
JOptionPane.showConfirmDialog(fram,"Are you
sure to Exit from Game?", "Exit Message",
JOptionPane.YES NO OPTION)==
JOptionPane.YES NO OPTION){
            System.exit(0);
        if(e.getSource()==b1){
          bl.setText(player_start);
          if(player start=="x"){
        bl.setForeground(Color.blue);
     }
     else{
        bl.setForeground(Color.magenta);
     }
          choose_player();
          who win();
        if(e.getSource()==b2){
          b2.setText(player start);
           if(player start=="x"){
        b2.setForeground(Color.BLUE);
     else{
```

```
b2.setForeground(Color.magenta);
}
     choose_player();
     who_win();
  }
   if(e.getSource()==b3){
     b3.setText(player start);
      if(player start=="x"){
   b3.setForeground(Color.BLUE);
}
else{
   b3.setForeground(Color.magenta);
     choose_player();
     who_win();
  }
   if(e.getSource()==b4){
     b4.setText(player_start);
      if(player_start=="x"){
   b4.setForeground(Color.BLUE);
}
else{
   b4.setForeground(Color.magenta);
     choose_player();
     who_win();
  }
   if(e.getSource()==b5){
     b5.setText(player_start);
      if(player start=="x"){
   b5.setForeground(Color.BLUE);
}
else{
   b5.setForeground(Color.magenta);
}
     choose player();
     who_win();
  }
   if(e.getSource()==b6){
     b6.setText(player_start);
      if(player start=="x"){
   b6.setForeground(Color.BLUE);
}
else{
   b6.setForeground(Color.magenta);
     choose player();
     who_win();
  }
   if(e.getSource()==b7){
```

```
b7.setText(player_start);
      if(player start=="x"){
   b7.setForeground(Color.BLUE);
}
else{
   b7.setForeground(Color.magenta);
     choose_player();
     who win();
  }
   if(e.getSource()==b8){
     b8.setText(player start);
      if(player_start=="x"){
   b8.setForeground(Color.BLUE);
}
else{
   b8.setForeground(Color.magenta);
}
     choose_player();
     who win();
   if(e.getSource()==b9){
     b9.setText(player start);
      if(player start=="x"){
   b9.setForeground(Color.BLUE);
}
else{
   b9.setForeground(Color.magenta);
}
     choose player();
     who_win();
  }
   if(e.getSource()==b10){
      bl.setText(null);
      b2.setText(null);
      b3.setText(null);
      b4.setText(null);
      b5.setText(null);
      b6.setText(null);
      b7.setText(null);
      b8.setText(null);
      b9.setText(null);
```

