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package com.work;

import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class Main {
    static int countround = 0;
    static JFrame frame = new JFrame();
    static JPanel title_panel = new JPanel();
    static JPanel button_panel = new JPanel();
    static JLabel label = new JLabel();
    static JButton[] buttons = new JButton[9];
    static String player = "O";
    static void guidisplay() {
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setTitle("OX Game");
        frame.setSize(500,500);
        frame.setLayout(new BorderLayout());
        frame.setVisible(true);

        label.setFont(new Font(Font.SERIF,Font.BOLD,30));
        label.setHorizontalAlignment(JLabel.CENTER);
        label.setText("Welcome to OX Game");

        title_panel.setLayout(new BorderLayout());
        title_panel.setBounds(0,0,500,10);
        title_panel.add(label);
        frame.add(title_panel,BorderLayout.NORTH);

        button_panel.setLayout(new GridLayout(3,3));
        button_panel.setBackground(new Color(150,150,150));

        for(int i=0;i<9;i++) {
            buttons[i] = new JButton();
            button_panel.add(buttons[i]);
            buttons[i].setText(" ");
            buttons[i].setFont(new Font(Font.SANS_SERIF, Font.BOLD,
120));
            buttons[i].setFocusable(false);
            buttons[i].addActionListener(new ActionListener() {
                @Override
                public void actionPerformed(ActionEvent e) {
                    label.setText("This is X Turn");
                    for (int x = 0; x < 9; x++) {
                        if (e.getSource() == buttons[x]) {
                            buttons[x].setText(player);
                            buttons[x].setEnabled(false);
                            if (player.equals("O")) {
                                player = "X";
                            } else {
                                player = "O";
                                label.setText("This is O Turn");
                            }
                        }
                    }
                }
            });
        }
    }
}

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        countround++;
        if (countround == 9)
            label.setText("DRAW");
    }
    checkwin();
}
if(checkwin()){
    for (int i = 0; i < 9; i++)
        buttons[i].setEnabled(false);
    if (player.equals("X"))
        label.setText("Player O WIN");
    if (player.equals("O"))
        label.setText("Player X WIN");
}

    }
});
}

    frame.add(button_panel);
}
static boolean checkwin(){
    if (buttons[0].getText().equals(buttons[1].getText()) &&
buttons[1].getText().equals(buttons[2].getText()) &&
!buttons[0].getText().equals(" "))
        return true;
    else if (buttons[3].getText().equals(buttons[4].getText()) &&
buttons[4].getText().equals(buttons[5].getText()) &&
!buttons[3].getText().equals(" "))
        return true;
    else if (buttons[6].getText().equals(buttons[7].getText()) &&
buttons[7].getText().equals(buttons[8].getText()) &&
!buttons[6].getText().equals(" "))
        return true;
    else if (buttons[0].getText().equals(buttons[3].getText()) &&
buttons[3].getText().equals(buttons[6].getText()) &&
!buttons[0].getText().equals(" "))
        return true;
    else if (buttons[1].getText().equals(buttons[4].getText()) &&
buttons[4].getText().equals(buttons[7].getText()) &&
!buttons[1].getText().equals(" "))
        return true;
    else if (buttons[2].getText().equals(buttons[5].getText()) &&
buttons[5].getText().equals(buttons[8].getText()) &&
!buttons[2].getText().equals(" "))
        return true;
    else if (buttons[3].getText().equals(buttons[4].getText()) &&
buttons[4].getText().equals(buttons[5].getText()) &&
!buttons[3].getText().equals(" "))
        return true;
    else if (buttons[0].getText().equals(buttons[4].getText()) &&
buttons[4].getText().equals(buttons[8].getText()) &&
!buttons[0].getText().equals(" "))
        return true;
    else if (buttons[2].getText().equals(buttons[4].getText()) &&

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buttons[4].getText().equals(buttons[6].getText()) &&  
!buttons[2].getText().equals(" "))  
    return true;  
    else  
        return false;  
}  
public static void main(String[] args) {  
    guidisplay();  
}  
  
}
```