1)

```java
public class LibyaPanel extends JPanel{
      public LibyaPanel() {
            //panel
            setSize(500,300);
            setBackground(Color.green);
      }
      public static void main(String[] args){
            JFrame frame = new JFrame("Libya");
            frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
            frame.setSize(500, 300);
            frame.setLocation(400, 300);
            frame.add(new LibyaPanel());
            frame.setVisible(true);
      }
}
```

2)

```java
public class FrancePanel extends JPanel{
      public FrancePanel() {
            //containerpanel for color-panels
            setSize(500, 300);
            setLayout(new BorderLayout());

            JPanel bluePanel = new JPanel();
            bluePanel.setBackground(Color.blue);
            JPanel whitePanel = new JPanel();
            whitePanel.setBackground(Color.white);
            JPanel redPanel = new JPanel();
            redPanel.setBackground(Color.red);

            add(bluePanel, BorderLayout.WEST);
            add(whitePanel, BorderLayout.CENTER);
            add(redPanel, BorderLayout.EAST);
      }
      public static void main(String[] args){
            JFrame frame = new JFrame("France");
            frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
            frame.setSize(500, 300);
            frame.setLocation(400, 300);
            frame.add(new FrancePanel());
            frame.setVisible(true);
      }
```

```
}


3)
public class PanamaPanel extends JPanel{
    public PanamaPanel() {
        setSize(500,300);
        setLayout(new GridLayout(2,2));

        JPanel whitePanel = new JPanel();
        whitePanel.setBackground(Color.white);
        JPanel redPanel = new JPanel();
        redPanel.setBackground(Color.red);
        JPanel bluePanel = new JPanel();
        bluePanel.setBackground(Color.blue);
        JPanel whitePanel2 = new JPanel();
        whitePanel2.setBackground(Color.white);

        add(whitePanel);
        add(redPanel);
        add(bluePanel);
        add(whitePanel2);
    }
    public static void main(String[] args){
        JFrame frame = new JFrame("Panama");
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setSize(500, 300);
        frame.setLocation(400, 300);
        frame.add(new PanamaPanel());
        frame.setVisible(true);
    }
}


4)
public class ColorChanger extends JFrame implements ActionListener{
    private JPanel colorPanel;
    private JButton redButton, blueButton, yellowButton;
    public ColorChanger(String title){
        setTitle(title);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setSize(800, 600);
        setLocation(100, 100);

        //container
```

```java
        JPanel container = new JPanel();
        container.setLayout(new BorderLayout());

        //colorpanel
        colorPanel = new JPanel();
        colorPanel.setBackground(Color.white);

        //buttonpanel
        JPanel buttonPanel = new JPanel();
        redButton = new JButton("RED");
        redButton.addActionListener(this);
        blueButton = new JButton("BLUE");
        blueButton.addActionListener(this);
        yellowButton = new JButton("YELLOW");
        yellowButton.addActionListener(this);
        buttonPanel.add(redButton);
        buttonPanel.add(blueButton);
        buttonPanel.add(yellowButton);

        //adding swing-elements
        container.add(colorPanel, BorderLayout.CENTER);
        container.add(buttonPanel, BorderLayout.SOUTH);
        add(container);

        setVisible(true);
    }

    @Override
    public void actionPerformed(ActionEvent e) {
        if(e.getSource()==redButton){
            colorPanel.setBackground(Color.red);
        }
        if(e.getSource()==blueButton){
            colorPanel.setBackground(Color.blue);
        }
        if(e.getSource()==yellowButton){
            colorPanel.setBackground(Color.yellow);
        }
    }

    public static void main(String[] args){
        new ColorChanger("Färgknappar");
    }
```

```
}


5)
public class FlagChanger extends JFrame implements ActionListener{
      private JPanel flagPanel, buttonPanel;
      private JButton libyaButton, franceButton, panamaButton;
      public FlagChanger(String title){
          setTitle(title);
          setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
          setSize(500, 400);
          setLocation(100, 100);

          //container
          JPanel container = new JPanel();
          container.setLayout(new BorderLayout());

          //colorpanel
          flagPanel = new JPanel();
          flagPanel.setSize(500,300);

          //buttonpanel
          buttonPanel = new JPanel();
          buttonPanel.setSize(500,100);
          libyaButton = new JButton("LIBYA");
          libyaButton.addActionListener(this);
          franceButton = new JButton("FRANCE");
          franceButton.addActionListener(this);
          panamaButton = new JButton("PANAMA");
          panamaButton.addActionListener(this);
          buttonPanel.add(libyaButton);
          buttonPanel.add(franceButton);
          buttonPanel.add(panamaButton);


          container.add(flagPanel, BorderLayout.CENTER);
          container.add(buttonPanel, BorderLayout.SOUTH);
          add(container);
          setVisible(true);
      }

      @Override
      public void actionPerformed(ActionEvent e) {
          flagPanel.removeAll();
```

```java
                flagPanel.revalidate();
                if(e.getSource()==libyaButton){
                        flagPanel.add(new LibyaPanel());
                        System.out.println("libya");
                }
                else if(e.getSource()==franceButton){
                        flagPanel.add(new FrancePanel());
                        System.out.println("france");
                }
                else if(e.getSource()==panamaButton){
                        flagPanel.add(new PanamaPanel());
                        System.out.println("panama");
                }
                repaint();
        }

        public static void main(String[] args){
                new FlagChanger("Färgknappar");
        }
}
```