

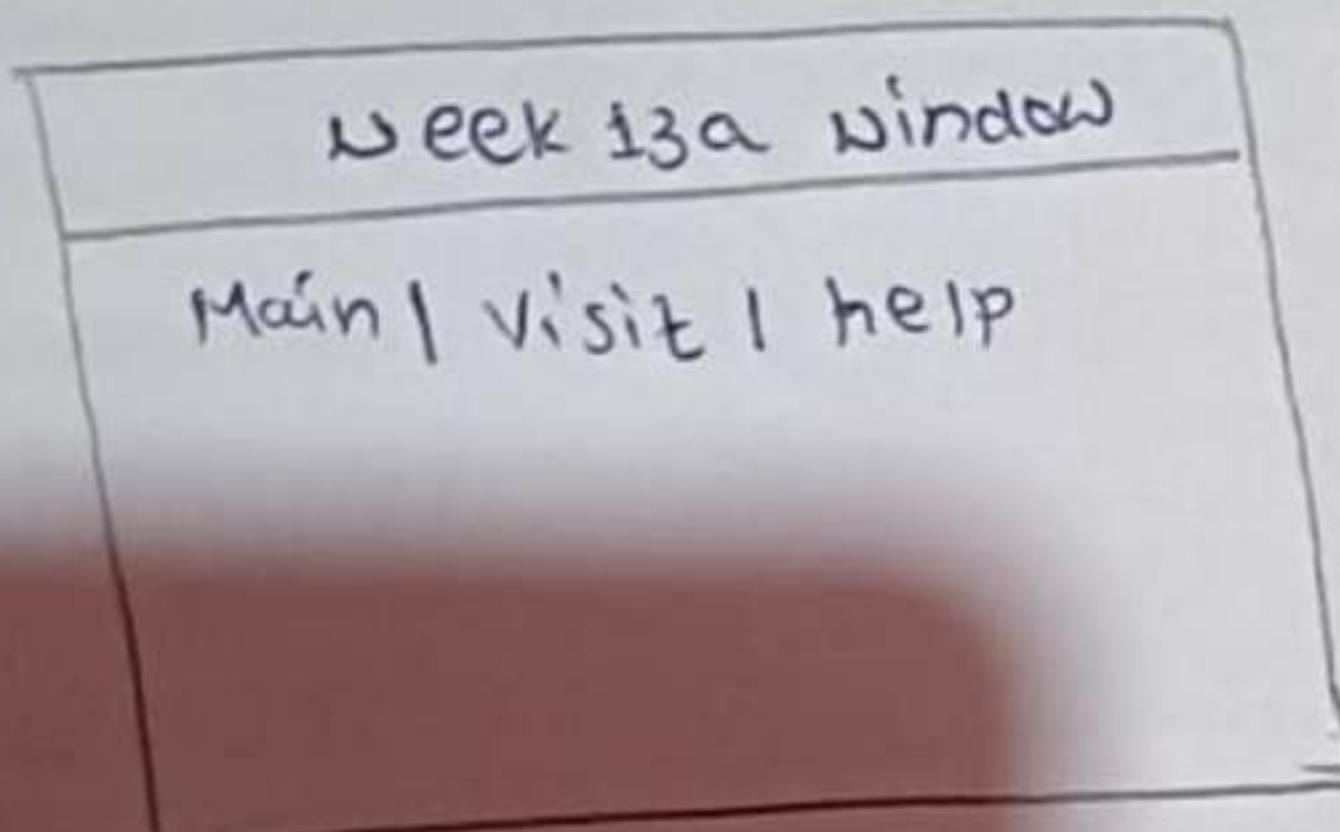
Step-6: Set the JFrame size and set setVisible(true) to make JTabbedPane visible.

Step-7: END

SOURCE CODE

```
import javax.swing.*;
public class week13a{
    JFrame f;
    week13a(){
        f=new JFrame();
        JTextArea ta=new JTextArea(200,200);
        JPanel p1 = new JPanel();
        p1.add(ta);
        JPanel p2 = new JPanel();
        JPanel p3 = new JPanel();
        JTabbedPane tp =new JTabbedPane();
        tp.setBounds(50,50,200,200);
        tp.add("main", p1);
        tp.add("visit", p2);
        tp.add("help", p3);
        f.add(tp);
        f.setSize(400,400);
        f.setLayout(null);
        f.setVisible(true);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
    public static void main(String[] args){
        new week13a();
    }
}
```

OUTPUT



2. JScrollPane

ALGORITHM

Step-1: START

Step-2: Create a Panel and set panel Layout to the GridLayout.

Step-3: Create array of buttons and add them to the Panel.

Step-4: Create horizontal and vertical ScrollPaneConstants.

Step-5: Create a JScrollPane and set panel, horizontal and vertical ScrollPaneConstants.

Step-6: Get the contentPane object and add the JScrollPane object to it with required layout.

Step-7: END

SOURCE CODE

```
import javax.swing.*;
import java.awt.BorderLayout;
public class WEEK13b1
{
    public static void main(String[] args)
    {
        JFrame frame = new JFrame("JScrollPane Example");
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setSize(400,300);
        JTextArea textArea = new JTextArea(20,40);
        textArea.setText("This is a JTextArea inside a JScrollPane. In".repeat(5));
        JScrollPane scrollPanel = new JScrollPane(textArea);
        frame.add(scrollPanel);
        frame.setVisible(true);
    }
}
```

OUTPUT

JSScrollPane Example

This is a JTextArea inside a JSScrollPane.

This is a JTextArea inside a JSScrollPane.

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This is a JTextArea inside JSScrollPane.

This is a JTextArea inside JSScrollPane.