

Java JProgressBar :- The JProgressBar class is used to display the progress task inside frame. It extends upon the package javax.swing.JProgressBar.

```
public class JProgressBar extends JComponent implements SwingConstants, Accessible
```

Methods:-

1. `setStringPainted():`-It is used to determine whether string should be displayed.
2. `setString():`- It is used to set value to the progress string.
3. `setOrientation():`-It is used to set the orientation, it may be either vertical or horizontal by using `SwingConstants.VERTICAL` and `SwingConstants.HORIZONTAL`.
4. `setValue(int value):`- It is used to set the current value on the progress bar.

Example :-

```
import javax.swing.*;  
  
public class pbclass extends JFrame{  
  
JProgressBar jb;  
  
int i=0,num=0;  
  
pbclass(){  
  
jb=new JProgressBar(0,1000);  
  
jb.setBounds(40,40,160,30);  
  
jb.setValue(0);  
  
jb.setStringPainted(true);  
  
add(jb);  
  
setSize(250,150);  
  
setLayout(null);  
  
}  
  
public void iterate(){  
  
while(i<=1000){  
  
jb.setValue(i);  
}
```

```
i=i+20;  
try{Thread.sleep(150);}catch(Exception e){}  
}  
}  
  
public static void main(String[] args) {  
  
    pbclass m=new pbclass();  
  
    m.setVisible(true);  
  
    m.iterate();  
}  
}
```

JSlider:- A component that lets the user graphically select a value by sliding a known within a bounded interval. The `JSlider.AccessibleJSlider` This class implements accessibility support for the `slider`.
Methods:-

`setValue()` :- Sets or gets the slider's current value. The set method also positions the slider's.

`getValue()`:- Receive the current value.

`setOrientation()` :-This method set the orientation of Slider.

`getOrientation()`:- This method receive the current value.

Example :-

```
import javax.swing.*;  
  
public class SliderExample1 extends JFrame{  
  
    public SliderExample1() {  
  
        JSlider slider = new JSlider(JSeparator.HORIZONTAL, 0, 50, 25);  
  
        JPanel panel=new JPanel();  
  
        panel.add(slider);  
  
        add(panel);
```

}

```
public static void main(String s[]) {  
    SliderExample1 frame=new SliderExample1();  
    frame.pack();  
    frame.setVisible(true);  
}  
}
```

JToolBar :-

It is a container allows us to group other components, usually buttons with icons in a row or column.

```
JToolBar toolbar = new JToolBar();  
toolbar.setRollover(true);  
JButton button = new JButton("File");  
toolbar.add(button);
```

Note :-Add the button in a ToolBar

JMenuBar:-

The JMenuBar class is used to display menubar on the window or frame. It is consisted by different menu items.

Syntax:-

```
JMenu menu, submenu;  
JMenuItem t1;  
JMenuBar mb=new JMenuBar();  
  
menu=new JMenu("Main");  
  
submenu=new JMenu("Lavel Menu");  
  
t1=new JMenuItem("New");  
  
menu.add(t1);
```

