

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <module type="JAVA_MODULE" version="4">
3   <component name="NewModuleRootManager" inherit-compiler-output="true">
4     <exclude-output />
5     <content url="file://$MODULE_DIR$">
6       <sourceFolder url="file://$MODULE_DIR$" isTestSource="false" />
7     </content>
8     <orderEntry type="inheritedJdk" />
9     <orderEntry type="sourceFolder" forTests="false" />
10  </component>
11 </module>
```

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1 <?xml version="1.0" encoding="UTF-8"?>
2 <form xmlns="http://www.intellij.com/uidesigner/form/" version="1" bind-to-class="GUIWeek301GUI">
3   <grid id="27dc6" binding="PanelMain" layout-manager="GridLayoutManager" row-count="3" column-count="2" same-
size-horizontally="false" same-size-vertically="false" hgap="-1" vgap="-1">
4     <margin top="0" left="0" bottom="0" right="0"/>
5     <constraints>
6       <xy x="20" y="20" width="500" height="400"/>
7     </constraints>
8     <properties/>
9     <border type="none"/>
10    <children>
11      <component id="bbe1d" class="javax.swing.JButton" binding="ButtonFirst">
12        <constraints>
13          <grid row="1" column="0" row-span="1" col-span="1" vsize-policy="0" hsize-policy="3" anchor="0" fill
="1" indent="0" use-parent-layout="false"/>
14        </constraints>
15        <properties>
16          <text value=""/>
17        </properties>
18      </component>
19      <vspacer id="e92b3">
20        <constraints>
21          <grid row="2" column="0" row-span="1" col-span="1" vsize-policy="1" hsize-policy="6" anchor="0" fill
="2" indent="0" use-parent-layout="false"/>
22        </constraints>
23      </vspacer>
24      <component id="905e3" class="javax.swing.JButton" binding="ButtonSecond">
25        <constraints>
26          <grid row="1" column="1" row-span="1" col-span="1" vsize-policy="0" hsize-policy="3" anchor="0" fill
="1" indent="0" use-parent-layout="false"/>
27        </constraints>
28        <properties>
29          <text value=""/>
30        </properties>
31      </component>
32      <vspacer id="546ab">

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33 </constraints>
34 <grid row="0" column="0" row-span="1" col-span="1" vsize-policy="6" hsize-policy="1" anchor="0" fill
   ="2" indent="0" use-parent-layout="false"/>
35 </constraints>
36 </vspacer>
37 </children>
38 </grid>
39 </form>
40
```

```
1 import javax.imageio.ImageIO;
2 import javax.swing.*.*;
3 import java.awt.*.*;
4 import java.io.IOException;
5
6 public class GUIWeek301GUI extends JFrame{
7     private JButton ButtonFirst;
8     private JButton ButtonSecond;
9     private JPanel PanelMain;
10    private Image ButtonImage;
11    private boolean IsButtonFirstEnabled = true;
12    private boolean IsButtonSecondEnabled = false;
13
14    public GUIWeek301GUI(){
15        this.add(PanelMain);
16        this.setSize(500, 200);
17        this.setTitle("GUIWeek3_01 Homework");
18        this.setDefaultCloseOperation(EXIT_ON_CLOSE);
19
20        try {
21            ButtonImage = ImageIO.read(getClass().getResource("resources/JavaIcon.png"));
22
23        } catch (IOException e) {
24
25        }
26
27        ButtonFirst.setEnabled(true);
28        ButtonFirst.setIcon(new ImageIcon(ButtonImage));
29
30        ButtonSecond.setEnabled(false);
31        ButtonSecond.setIcon(new ImageIcon(ButtonImage));
32
33
34        ButtonFirst.addActionListener(e->{
35            IsButtonSecondEnabled = !IsButtonSecondEnabled;
36            ButtonSecond.setEnabled(IsButtonSecondEnabled);
```

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37     });
38
39     ButtonSecond.addActionListener(e->{
40         IsButtonFirstEnabled = !IsButtonFirstEnabled;
41         ButtonFirst.setEnabled(IsButtonFirstEnabled);
42     });
43
44     }
45
46     public static void main(String[] args){
47
48         //Set Windows's Component To Your Project
49         try {
50             UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
51         } catch (ClassNotFoundException e) {
52             e.printStackTrace();
53         } catch (InstantiationException e) {
54             e.printStackTrace();
55         } catch (IllegalAccessException e) {
56             e.printStackTrace();
57         } catch (UnsupportedLookAndFeelException e) {
58             e.printStackTrace();
59         }
60
61
62         //Set UI Thread to another thread
63         SwingUtilities.invokeLater(() -> {
64             GUIWeek301GUI gui = new GUIWeek301GUI();
65             gui.setVisible(true);
66         });
67
68     }
69 }
70
```