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

```xml
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="6" hsize-policy="1" 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">
```

```xml
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
```

```java
 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);
```

```java
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
```