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

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

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

```
1 import javax.imageio.ImageI0;
2 import javax.swing.*;
3 import java.awt.*;
 4 import java.io.IOException;
 6 public class GUIWeek301GUI extends JFrame{
       private JButton ButtonFirst;
       private JButton ButtonSecond;
 8
9
       private JPanel PanelMain;
       private Image ButtonImage;
10
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);
           ButtonFirst.setIcon(new ImageIcon(ButtonImage));
28
29
30
           ButtonSecond.setEnabled(false);
31
           ButtonSecond.setIcon(new ImageIcon(ButtonImage));
32
33
34
           ButtonFirst.addActionListener(e->{
35
               IsButtonSecondEnabled = !IsButtonSecondEnabled;
36
               ButtonSecond.setEnabled(IsButtonSecondEnabled);
```

```
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 qui = new GUIWeek301GUI();
65
               gui.setVisible(true);
66
           });
67
68
       }
69 }
70
```

