```xml
<?xml version="1.0" encoding="UTF-8"?>
<form xmlns="http://www.intellij.com/uidesigner/form/" version="1" bind-to-class="JComboBoxExampleGUI">
  <grid id="27dc6" binding="PanelMain" layout-manager="GridLayoutManager" row-count="7" column-count="4" same-size-horizontally="false" same-size-vertically="false" hgap="-1" vgap="-1">
    <margin top="20" left="20" bottom="20" right="20"/>
    <constraints>
      <xy x="20" y="20" width="500" height="400"/>
    </constraints>
    <properties>
      <background color="-1"/>
    </properties>
    <border type="none"/>
    <children>
      <vspacer id="e56b1">
        <constraints>
          <grid row="6" column="0" row-span="1" col-span="4" vsize-policy="6" hsize-policy="1" anchor="0" fill="2" indent="0" use-parent-layout="false"/>
        </constraints>
      </vspacer>
      <hspacer id="35127">
        <constraints>
          <grid row="4" column="0" row-span="1" col-span="4" vsize-policy="1" hsize-policy="6" anchor="0" fill="1" indent="0" use-parent-layout="false"/>
        </constraints>
      </hspacer>
      <component id="d266d" class="javax.swing.JLabel" binding="LabelCarType">
        <constraints>
          <grid row="2" column="0" row-span="1" col-span="1" vsize-policy="0" hsize-policy="0" anchor="8" fill="0" indent="5" use-parent-layout="false"/>
        </constraints>
        <properties>
          <text value="Car Type"/>
        </properties>
      </component>
      <component id="134" class="javax.swing.JLabel" binding="LabelCarBrand">
        <constraints>
```

```xml
33        <grid row="2" column="1" row-span="1" col-span="1" vsize-policy="0" hsize-policy="0" anchor="8" fill
   ="0" indent="6" use-parent-layout="false"/>
34        </constraints>
35        <properties>
36          <text value="Brand"/>
37        </properties>
38      </component>
39      <component id="ea3d8" class="javax.swing.JLabel" binding="LabelCarModel">
40        <constraints>
41          <grid row="2" column="2" row-span="1" col-span="2" vsize-policy="0" hsize-policy="0" anchor="8" fill
   ="0" indent="5" use-parent-layout="false"/>
42        </constraints>
43        <properties>
44          <text value="Model"/>
45        </properties>
46      </component>
47      <component id="743a3" class="javax.swing.JComboBox" binding="ComboBoxCarModel">
48        <constraints>
49          <grid row="3" column="2" row-span="1" col-span="2" vsize-policy="2" hsize-policy="0" anchor="8" fill
   ="1" indent="0" use-parent-layout="false"/>
50        </constraints>
51        <properties>
52          <enabled value="false"/>
53        </properties>
54      </component>
55      <component id="41dc2" class="javax.swing.JComboBox" binding="ComboBoxBrand">
56        <constraints>
57          <grid row="3" column="1" row-span="1" col-span="1" vsize-policy="0" hsize-policy="0" anchor="8" fill
   ="1" indent="0" use-parent-layout="false"/>
58        </constraints>
59        <properties>
60          <enabled value="false"/>
61        </properties>
62      </component>
63      <component id="7fb05" class="javax.swing.JComboBox" binding="ComboBoxCarType">
64        <constraints>
```

```xml
65         <grid row="3" column="0" row-span="1" col-span="1" vsize-policy="0" hsize-policy="2" anchor="8" fill
   ="1" indent="0" use-parent-layout="false"/>
66       </constraints>
67       <properties/>
68     </component>
69     <vspacer id="b60f9">
70       <constraints>
71         <grid row="1" column="1" row-span="1" col-span="1" vsize-policy="6" hsize-policy="1" anchor="0" fill
   ="2" indent="0" use-parent-layout="false"/>
72       </constraints>
73     </vspacer>
74     <component id="4af57" class="javax.swing.JButton" binding="ButtonCalculateCar">
75       <constraints>
76         <grid row="5" column="0" row-span="1" col-span="4" vsize-policy="0" hsize-policy="3" anchor="0" fill
   ="1" indent="0" use-parent-layout="false"/>
77       </constraints>
78       <properties>
79         <text value="Calculate Car"/>
80       </properties>
81     </component>
82     <grid id="a575a" class="javax.swing.JToggleButton" binding="ToggleButtonDarkLightMode" layout-manager="
   GridLayoutManager" row-count="1" column-count="1" same-size-horizontally="false" same-size-vertically="false"
   hgap="-1" vgap="-1">
83       <margin top="0" left="0" bottom="0" right="0"/>
84       <constraints>
85         <grid row="0" column="3" row-span="1" col-span="1" vsize-policy="3" hsize-policy="3" anchor="0" fill
   ="0" indent="0" use-parent-layout="false"/>
86       </constraints>
87       <properties>
88         <icon value="Light.png"/>
89         <selected value="false"/>
90         <toolTipText value="Sets Light / Dark Mode"/>
91       </properties>
92       <border type="none"/>
93       <children/>
94     </grid>
```

```
95        </children>
96      </grid>
97    </form>
98
```

```java
import javax.swing.*;
import java.awt.*;
import java.util.ArrayList;
import java.util.Dictionary;
import java.util.Hashtable;
import java.util.List;

public class JComboBoxExampleGUI extends JFrame{
    public JPanel PanelMain;
    public JComboBox ComboBoxCarModel;
    public JComboBox ComboBoxBrand;
    public JComboBox ComboBoxCarType;
    private JButton ButtonCalculateCar;
    private JToggleButton ToggleButtonDarkLightMode;
    private JLabel LabelCarType;
    private JLabel LabelCarBrand;
    private JLabel LabelCarModel;

    public JComboBoxExampleGUI(){
        this.add(PanelMain);
        this.setSize(500,200);
        this.setTitle("Rent A Car JComboBox Example");
        this.setDefaultCloseOperation(EXIT_ON_CLOSE);

        Color whiteColour = new Color(255,255,255);
        Color blackColour = new Color(0,0,0);

        List<String> carTypes = new ArrayList<>();
        carTypes.add("SUV");
        carTypes.add("SEDAN");
        carTypes.add("SPORTS CAR");

        ComboBoxModel comboBoxCarTypeModel = new DefaultComboBoxModel(carTypes.toArray());
        ComboBoxCarType.setModel(comboBoxCarTypeModel);
```

```
37   ComboBoxCarType.addActionListener(e->{
38       ComboBoxCarModel.setModel(new DefaultComboBoxModel());
39       ComboBoxBrand.setModel(SetComboBoxBrand((String) ComboBoxCarType.getSelectedItem()));
40       ComboBoxBrand.setEnabled(true);
41   });
42
43   ComboBoxBrand.addActionListener(e -> {
44       ComboBoxCarModel.setModel(SetComboCarModel((String) ComboBoxBrand.getSelectedItem() , (String)
     ComboBoxCarType.getSelectedItem()));
45       ComboBoxCarModel.setEnabled(true);
46   });
47
48   ToggleButtonDarkLightMode.addActionListener(e -> {
49       if (ToggleButtonDarkLightMode.isSelected()){
50           PanelMain.setBackground(blackColour);
51           LabelCarBrand.setForeground(whiteColour);
52           LabelCarModel.setForeground(whiteColour);
53           LabelCarType.setForeground(whiteColour);
54       }
55
56       else{
57           PanelMain.setBackground(whiteColour);
58           LabelCarBrand.setForeground(blackColour);
59           LabelCarModel.setForeground(blackColour);
60           LabelCarType.setForeground(blackColour);
61       }
62
63   });
64
65   ButtonCalculateCar.addActionListener(e -> {
66       try {
67           CalculateCar((String) ComboBoxCarModel.getSelectedItem());
68       }catch (Exception exception){
69           JOptionPane.showMessageDialog(this,exception.getMessage());
70       }
71   });
```

```java
72        });
73    }
74
75    private ComboBoxModel SetComboCarModel(String carBrand,String carType) {
76        List<String> carModels = new ArrayList<>();
77
78        switch (carType) {
79        case "SUV":
80            switch (carBrand){
81            case "Mazda":
82                carModels.add("Mazda CX-5");
83                break;
84            case "Hyundai":
85                carModels.add("Hyundai 1.4 MPI Style");
86            }
87            break;
88        case "SEDAN":
89            switch (carBrand){
90            case "Volkswagen":
91                carModels.add("Volkswagen Passat 1.6 TDI BMT ComfortLine");
92                break;
93            case "Volvo":
94                carModels.add("Volvo 2.0 D D5 Inscription");
95            }
96            break;
97        case "SPORTS CAR":
98            switch (carBrand){
99            case "BMW":
100               carModels.add("BMW 3 Serisi 5.20i");
101               break;
102           case "Audi":
103               carModels.add("Audio A4 Sedan 2.0");
104           }
105           break;
106
107       }
```

```java
        ComboBoxModel convertTypeModel = new DefaultComboBoxModel(carModels.toArray());
        return convertTypeModel;
    }

    public void CalculateCar(String carModel){

        if (carModel == null)
            throw new NullPointerException("Araba modeli seçiniz");

        Dictionary<String,Integer> modelPriceDictionary = new Hashtable<>();
        modelPriceDictionary.put("BMW 3 Serisi 5.20i",400000);
        modelPriceDictionary.put("Audio A4 Sedan 2.0",400000);

        modelPriceDictionary.put("Mazda CX-5",400000);
        modelPriceDictionary.put("Hyundai 1.4 MPI Style",400000);

        modelPriceDictionary.put("Volkswagen Passat 1.6 TDI BMT ComfortLine",400000);
        modelPriceDictionary.put("Volvo 2.0 D D5 Inscription",400000);

        String carType = (String) ComboBoxCarType.getSelectedItem();
        String carBrand = (String) ComboBoxBrand.getSelectedItem();

        String message = "You choosed " + carType +
                " type " + carBrand +
                " brand " + carModel +
                " model \n\n" + "Price is " +
                modelPriceDictionary.get(carModel);

        JOptionPane.showMessageDialog(this,message);
    }

    public static ComboBoxModel SetComboBoxBrand(String carType){

        List<String> brands = new ArrayList<>();
```

```java
144          switch (carType){
145              case "SUV" :
146                  brands.add("Mazda");
147                  brands.add("Hyundai");
148                  break;
149              case "SEDAN":
150                  brands.add("Volkswagen");
151                  brands.add("Volvo");
152                  break;
153              case "SPORTS CAR":
154                  brands.add("BMW");
155                  brands.add("Audi");
156                  break;
157          }
158
159          ComboBoxModel convertTypeModel = new DefaultComboBoxModel(brands.toArray());
160          return convertTypeModel;
161      }
162
163      public static void main(String[] args){
164          try {
165              UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
166          } catch (ClassNotFoundException e) {
167              e.printStackTrace();
168          } catch (InstantiationException e) {
169              e.printStackTrace();
170          } catch (IllegalAccessException e) {
171              e.printStackTrace();
172          } catch (UnsupportedLookAndFeelException e) {
173              e.printStackTrace();
174          }
175
176          //Set UI Thread to another thread
177          SwingUtilities.invokeLater(() -> {
178              JComboBoxExampleGUI gui = new JComboBoxExampleGUI();
179              gui.setVisible(true);
```

```
180        });
181      }
182    }
183
```