

## Kilometer Converter App

In this tutorial, you will create the Kilometer Converter app. The app lets the user enter a distance in kilometers into a TextBox and then converts that distance to miles and displays the results in another TextBox. The conversion formula is:

$$\text{Miles} = \text{Kilometers} \times 0.6214$$

Step 1: Start a new project named KilometerConverter.

Step 2: Set up the app's screen with the components shown in Figure 3-58.

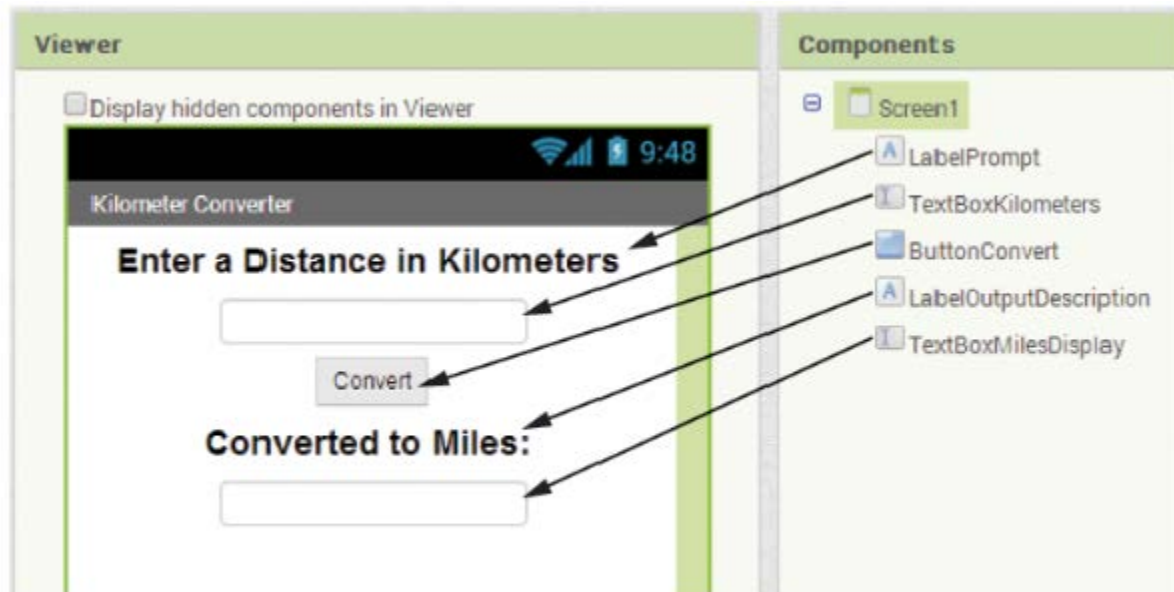


Figure 3-58 The Kilometer Converter App

Refer to Table 3-4 for the relevant property settings for each component.

**Table 3-4 Component Property Settings**

(Source: Pearson Education, Inc.)

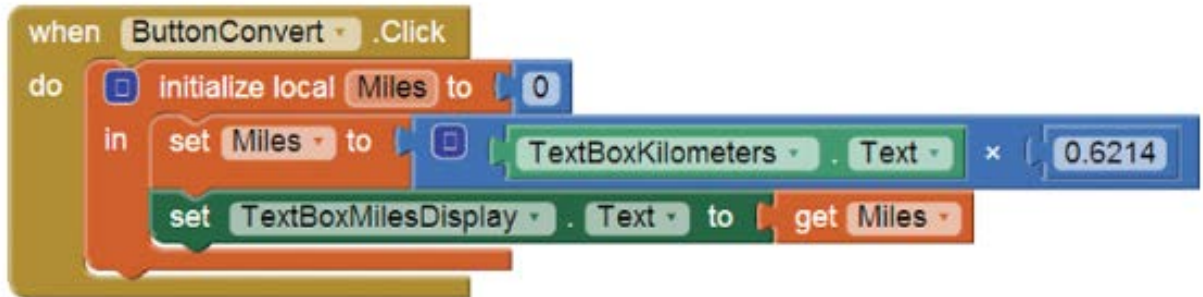
Component	Relevant Property Settings
<code>Screen1</code>	<code>AlignHorizontal = Center</code> <code>Title = Kilometer Converter</code>
<code>LabelPrompt</code>	<code>FontBold = checked</code> <code>FontSize = 20</code> <code>Text = Enter a Distance in Kilometers</code> <code>Width = Automatic</code> <code>Height = Automatic</code>
<code>TextBoxKilometers</code>	<code>Enabled = checked</code> <code>FontBold = checked</code> <code>FontSize = 20</code> <code>NumbersOnly = checked</code> <code>TextAlignment = Center</code> <code>Width = Automatic</code> <code>Height = Automatic</code>
<code>ButtonConvert</code>	<code>Text = Convert</code> <code>Width = Automatic</code> <code>Height = Automatic</code>
<code>LabelOutputDescription</code>	<code>FontBold = checked</code> <code>FontSize = 20</code> <code>Text = Converted to Miles:</code> <code>Width = Automatic</code> <code>Height = Automatic</code>
<code>TextBoxMilesDisplay</code>	<code>Enabled = unchecked</code> <code>FontBold = checked</code> <code>FontSize = 20</code> <code>TextAlignment = Center</code> <code>Width = Automatic</code> <code>Height = Automatic</code>

Step 3: Now you will program the Click event handlers for the `ButtonConvert` component. When the `ButtonConvert` component is clicked, it will do the following:

- It will create a local variable named `Miles`, initialized to 0.

- It will multiply the value entered into the TextBoxKilometers component by 0.6214 and assign the result to the local Miles variable.
- It will display the value of the local Miles variable in the TextBoxMilesDisplay component.

Set up your code as shown below:



Step 4: Test the app in the emulator or with a device. Enter *100* for the kilometers and click the Convert button. As shown in [Figure 3-62](#), the app should display 62.14 miles. Experiment with other values to confirm that the app is correct.

