
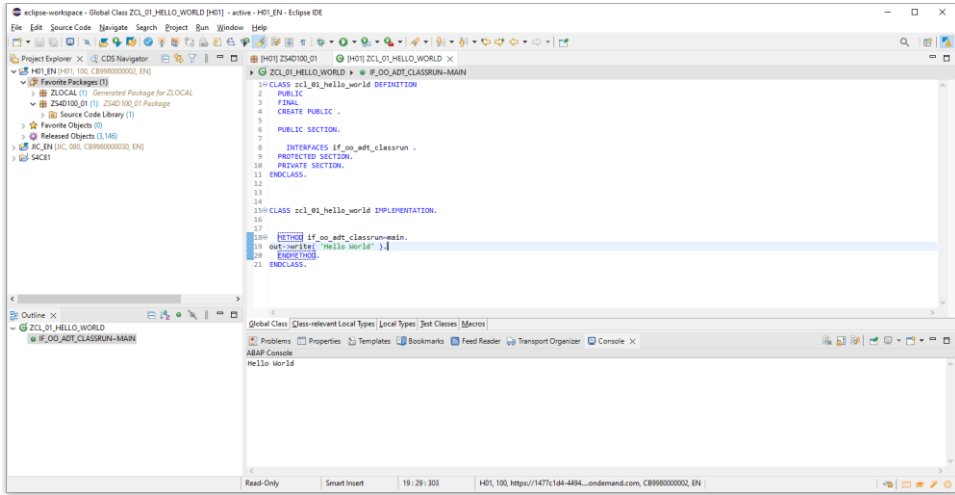

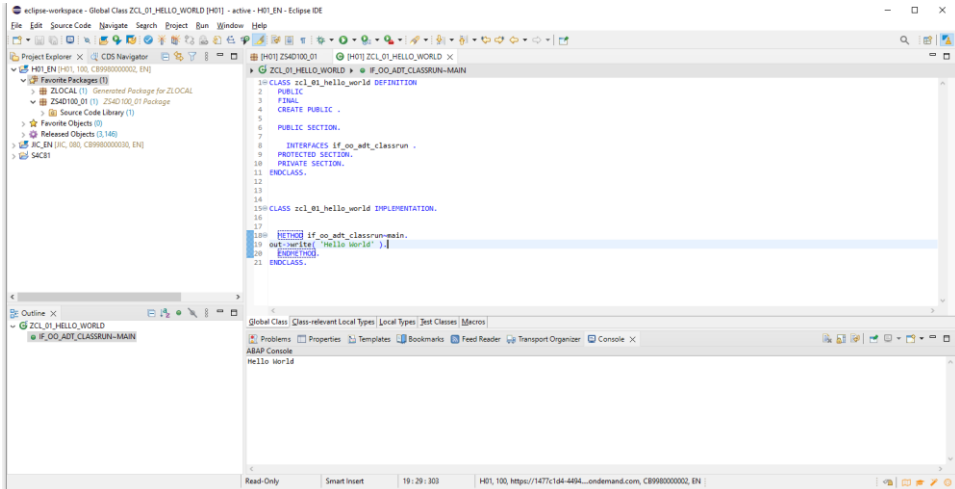
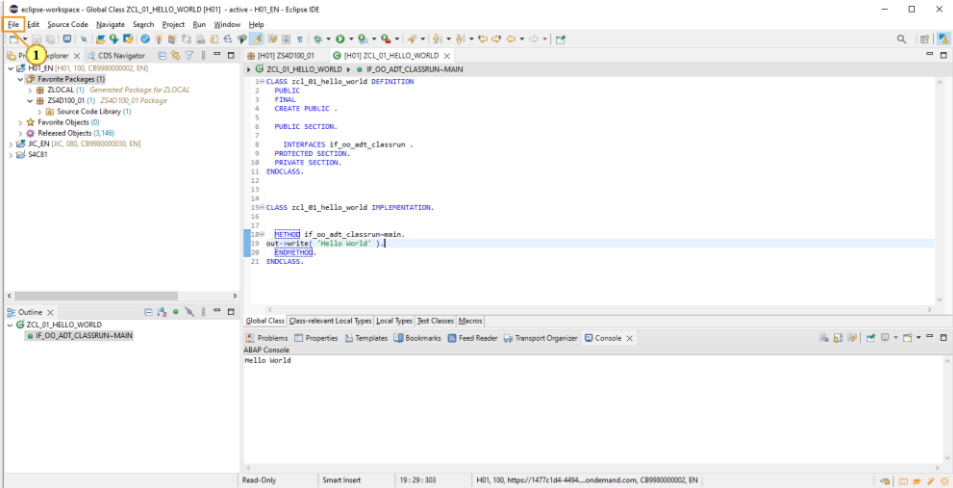
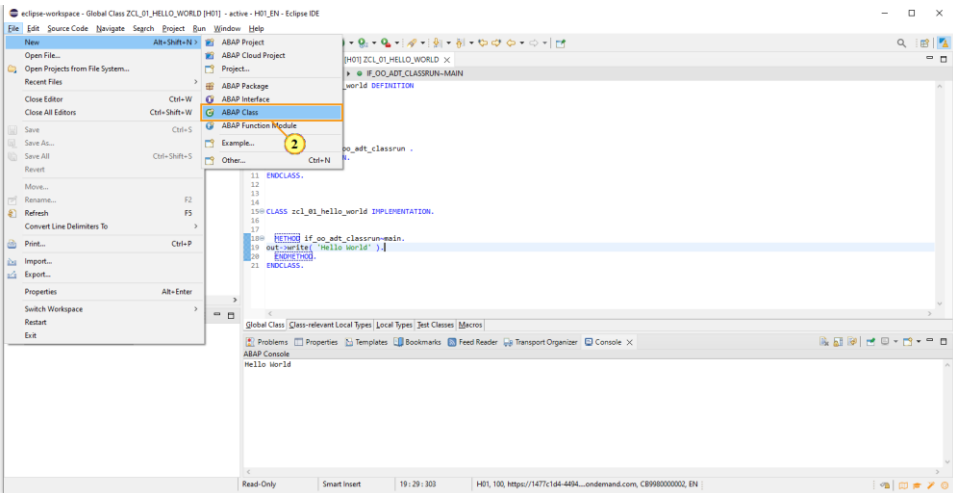
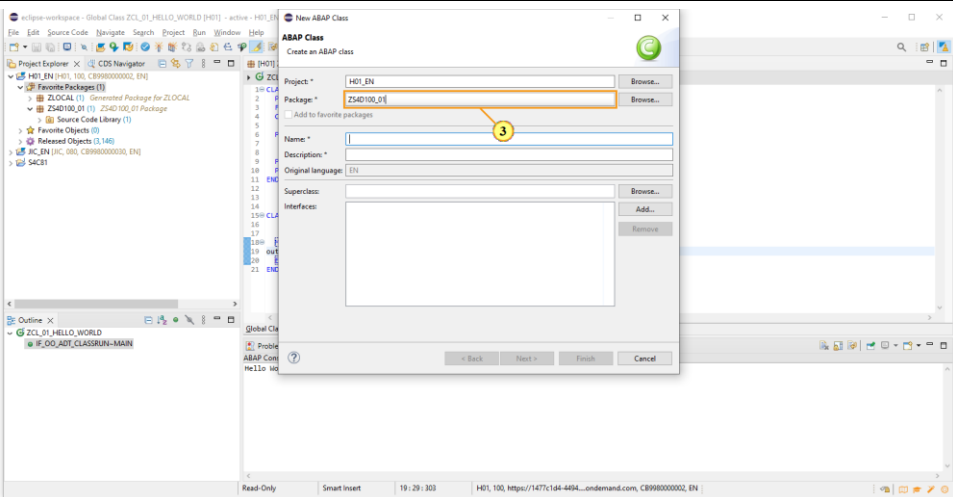
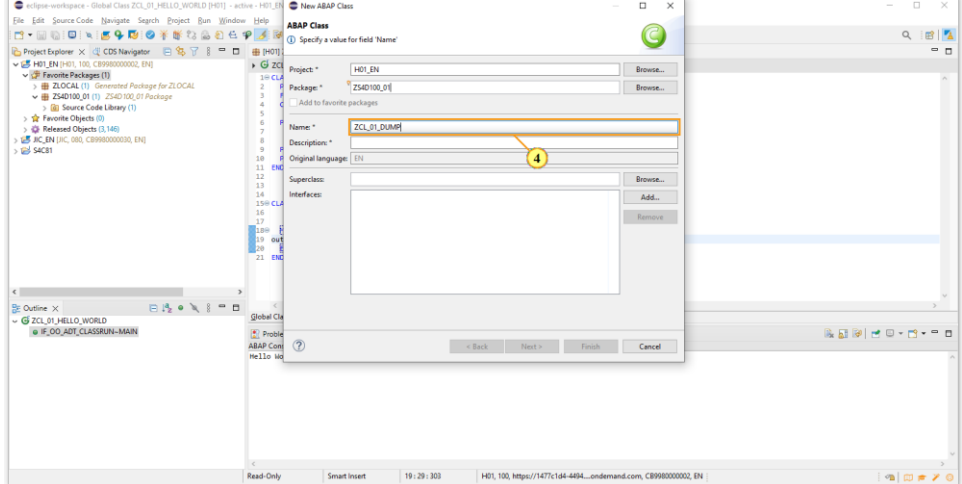
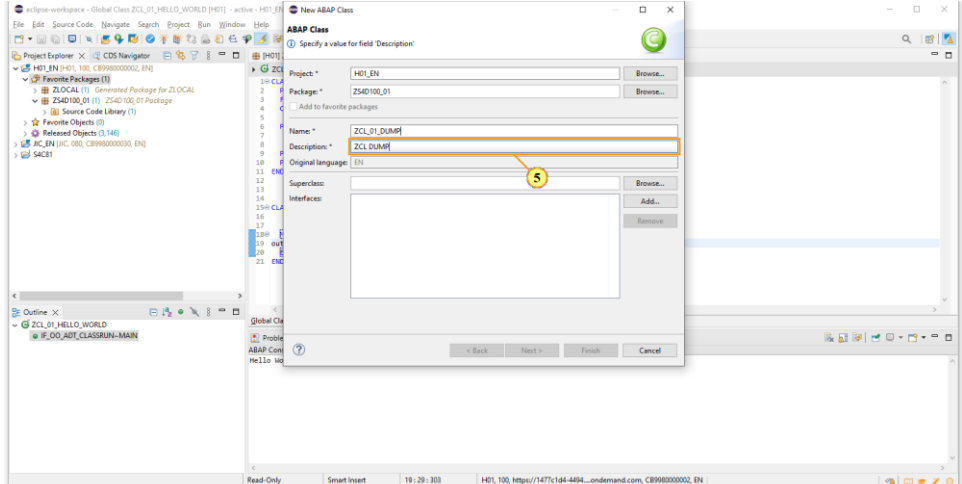
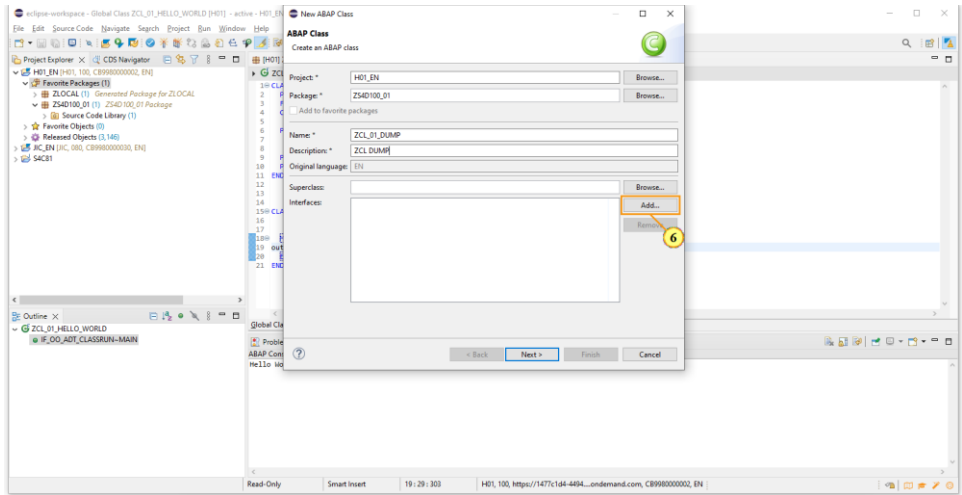
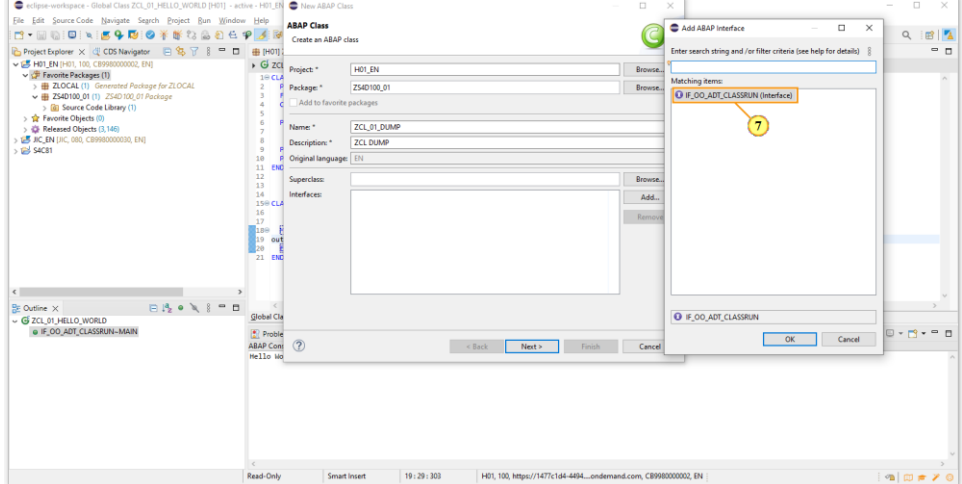
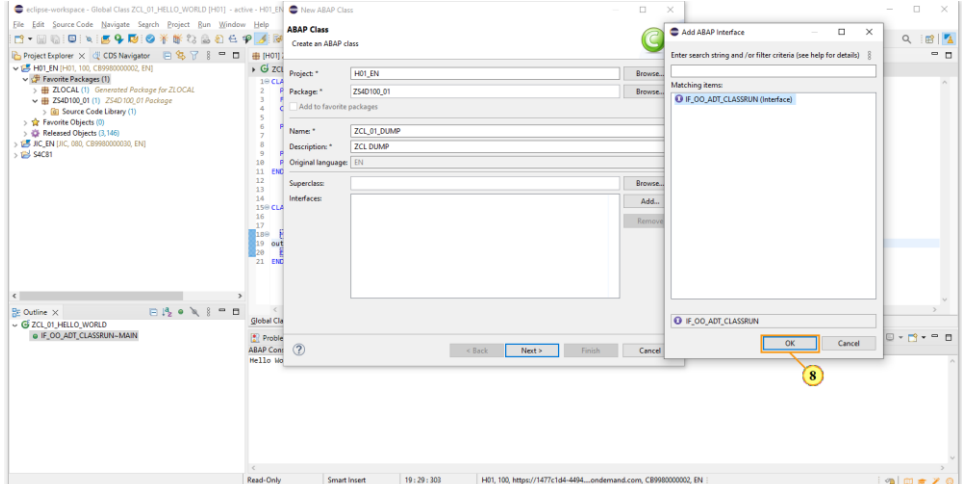
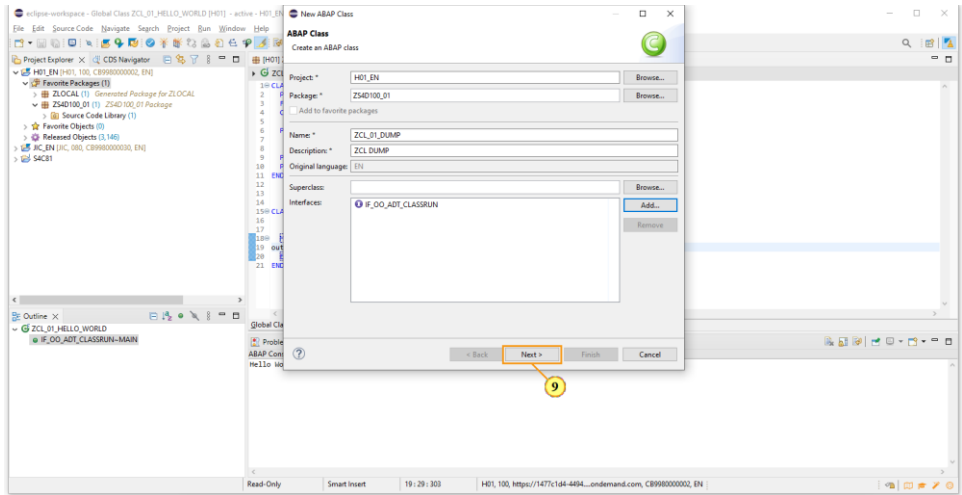


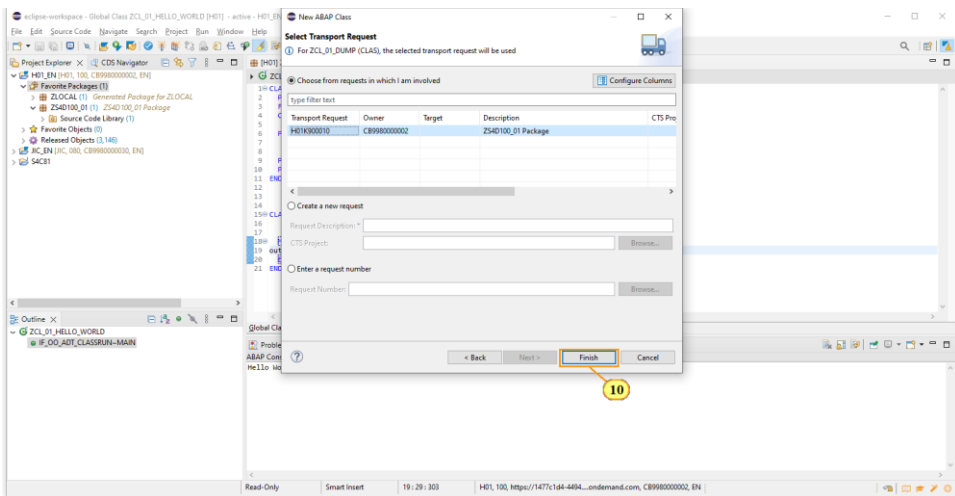
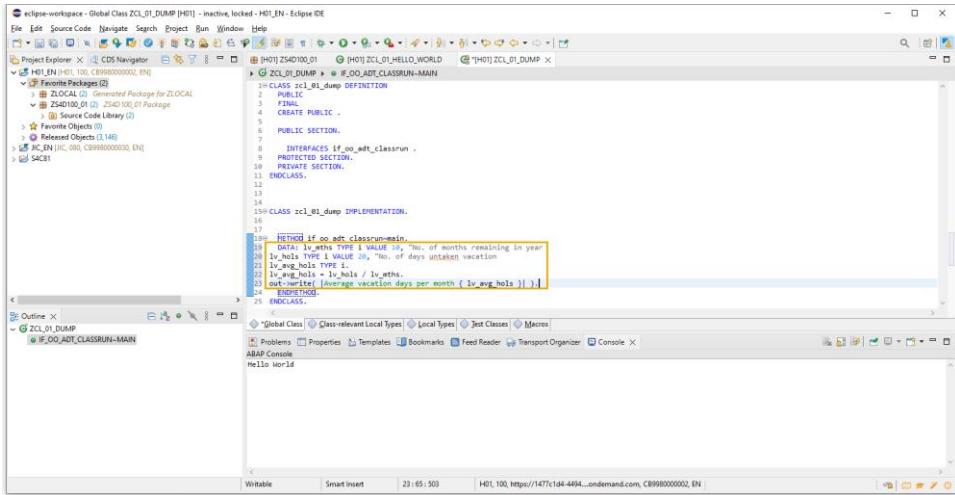
## Use Conditional Logic to Avoid a Runtime Error

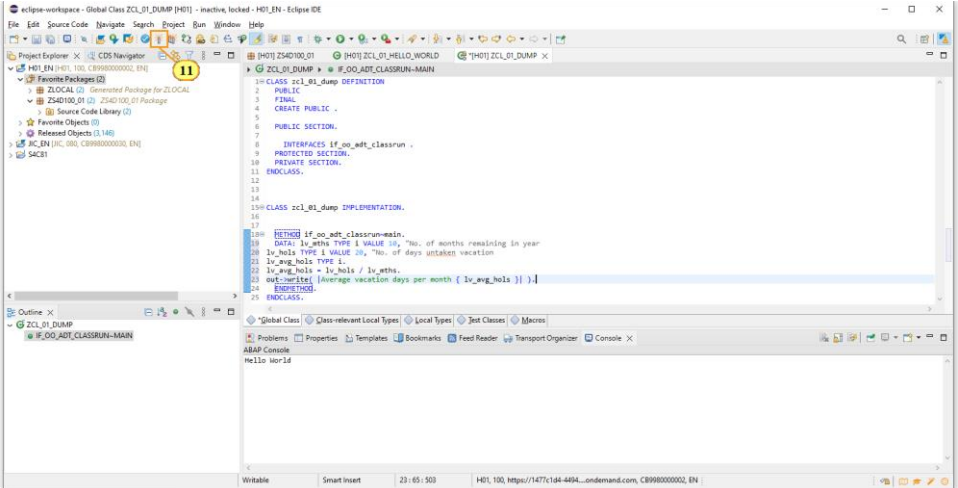
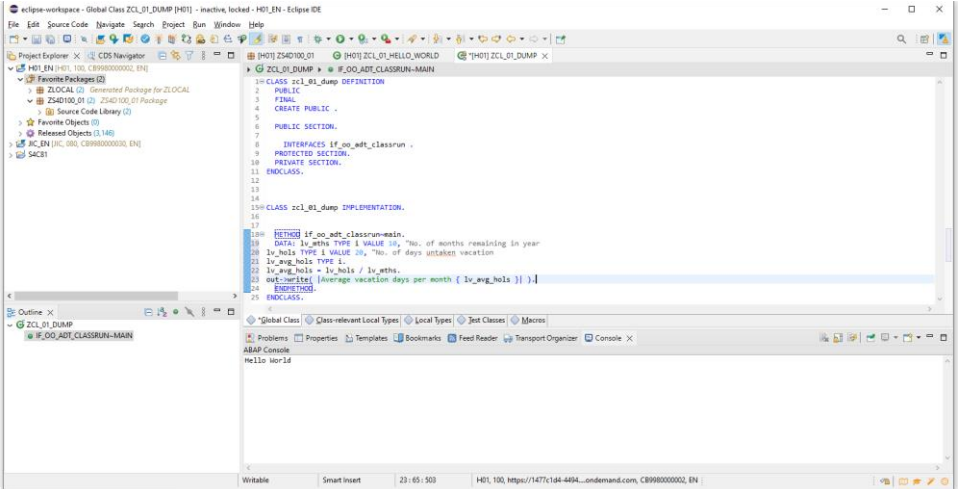
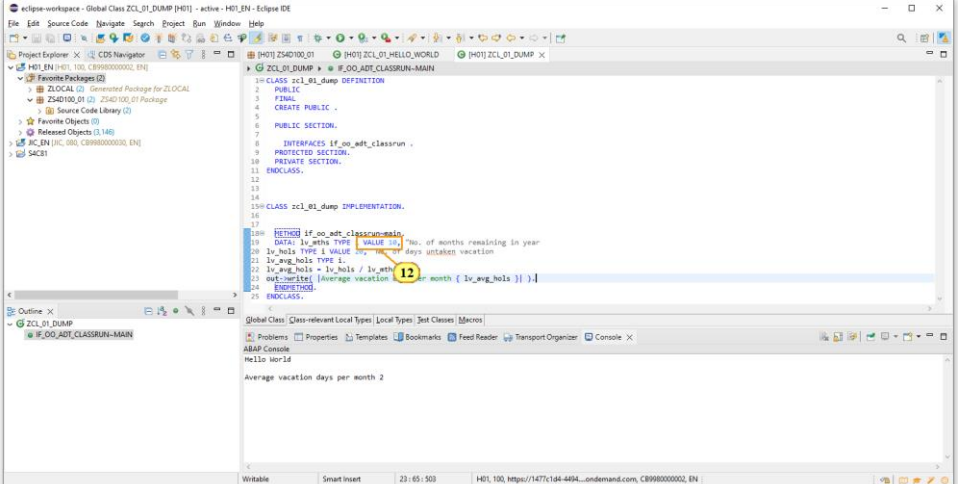
Explanation	Screenshot
<p> One of your colleagues created a program that calculates the average number of vacation days remaining for each month left in the year. Another colleague mentioned that the program performs strangely when there are no months remaining in the year. Test the program and make any changes necessary to ensure that it works in all circumstances.</p> <p>To learn more about how to use conditional logic to avoid a runtime error, follow this interactive tutorial.</p>	 <p>The screenshot shows the Eclipse IDE with the ABAP class ZCL_Hello_World open. The class has a method if_oo_adt_classrun-main. The console output shows 'Hello World'.</p>
<p> In the following steps, you will create a new ABAP class.</p>	 <p>The screenshot shows the Eclipse IDE with the ABAP class ZCL_Hello_World open. The class has a method if_oo_adt_classrun-main. The console output shows 'Hello World'.</p>

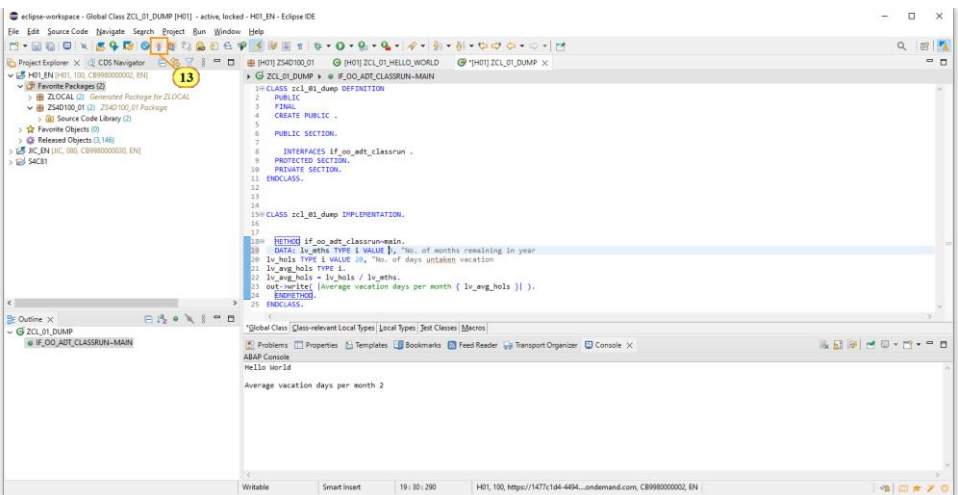
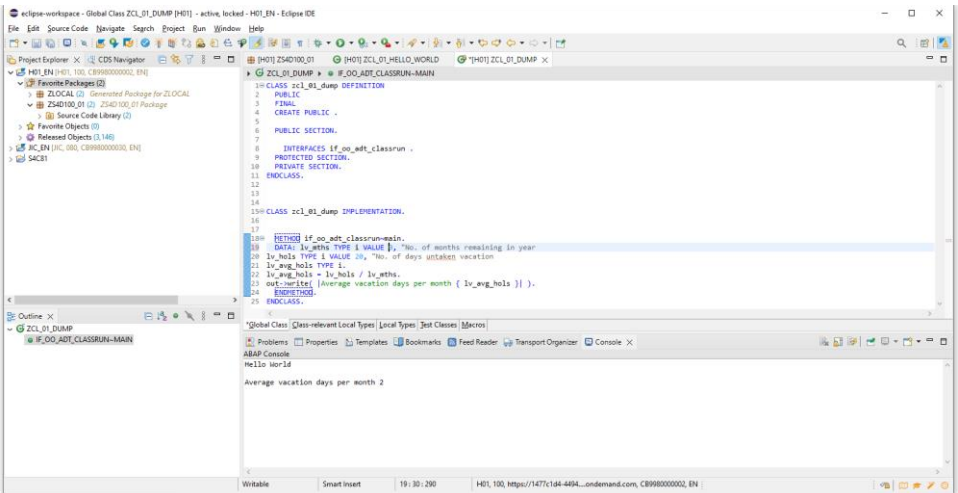
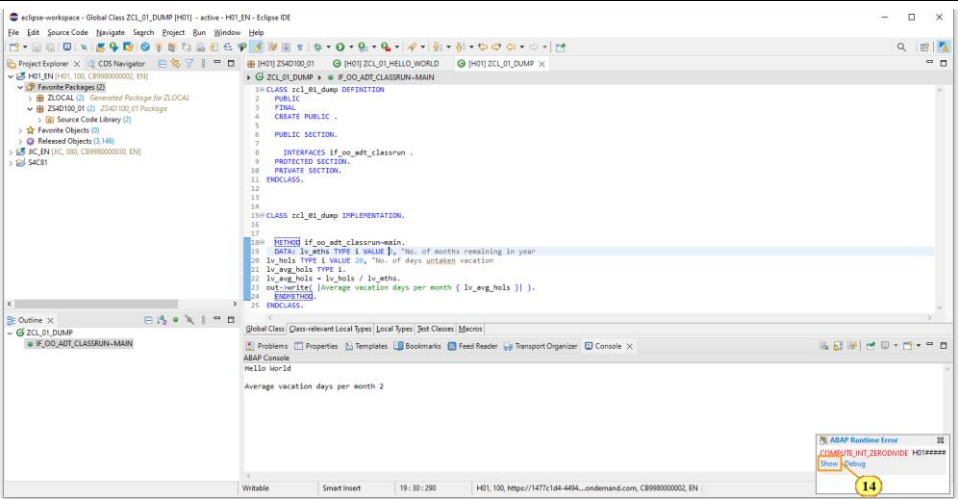
Explanation	Screenshot
<p>1. Choose <i>File</i>.</p>	 <p>The screenshot shows the Eclipse IDE interface. The 'File' menu is open, and the 'New' option is highlighted. The 'ABAP Class' option is also visible in the 'New' submenu. The background shows the project explorer with the 'ZS4D100_01' package selected.</p>
<p>2. Choose <i>New &gt; ABAP Class</i>.</p>	 <p>The screenshot shows the Eclipse IDE interface. The 'File' menu is open, and the 'New' option is highlighted. The 'ABAP Class' option is also visible in the 'New' submenu. The background shows the project explorer with the 'ZS4D100_01' package selected.</p>
<p>3. In the <i>Package</i> field, enter <b>ZS4D100_01</b>.</p>	 <p>The screenshot shows the Eclipse IDE interface. The 'New ABAP Class' dialog is open. The 'Package' field is highlighted, and the text 'ZS4D100_01' is entered. The 'Name' field is also visible. The background shows the project explorer with the 'ZS4D100_01' package selected.</p>

Explanation	Screenshot
<p>4. In the <i>Name</i> field, enter <b>ZCL_01_DUMP</b>.</p>	
<p>5. In the <i>Description</i> field, enter <b>ZCL DUMP</b>.</p>	
<p>6. Choose <i>Add</i>.</p>	

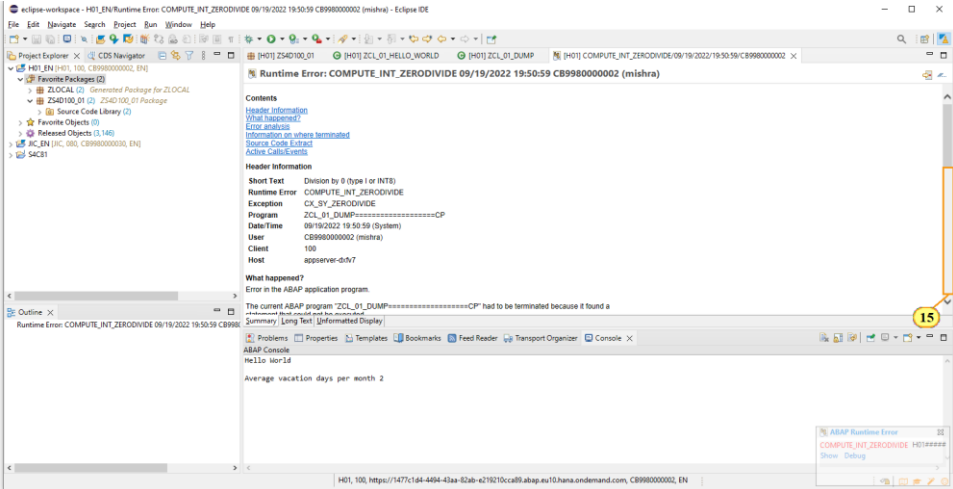
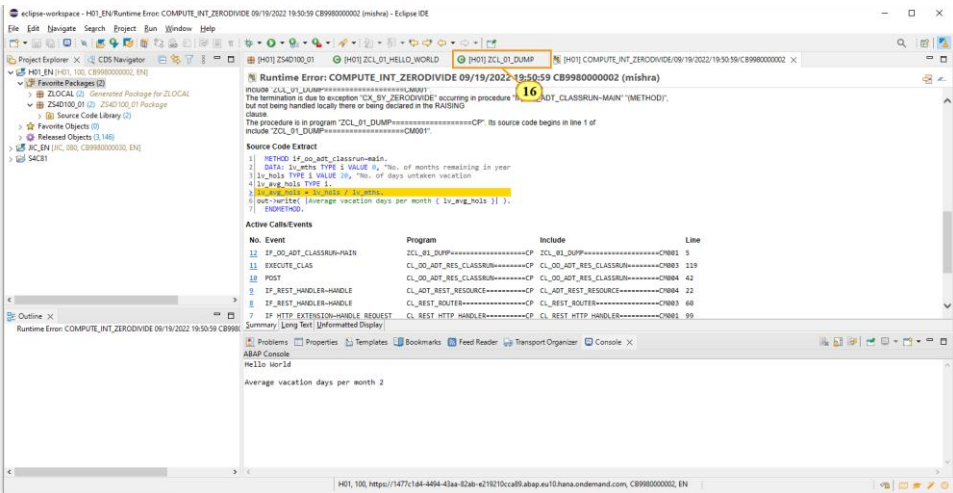

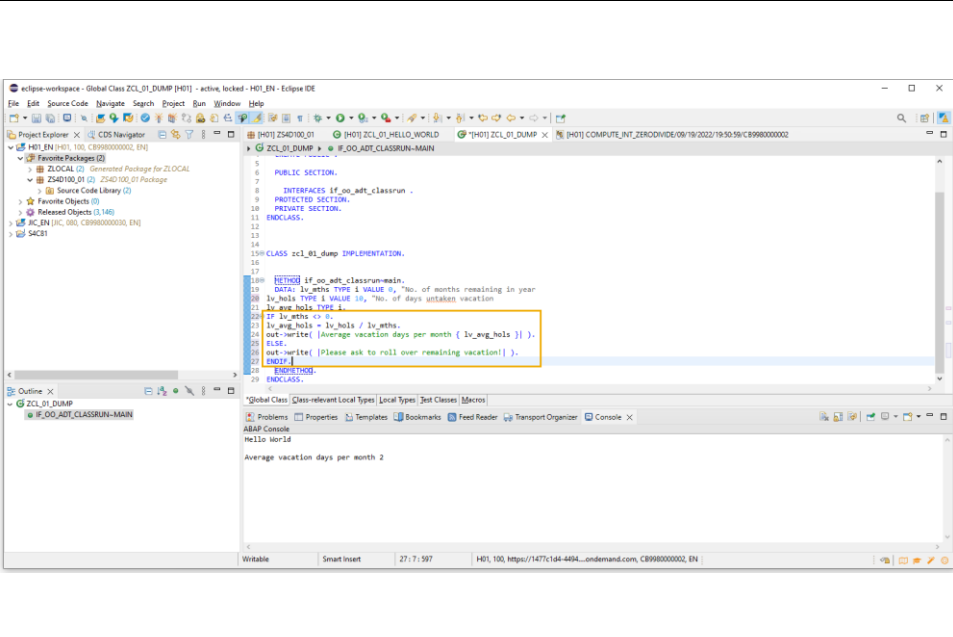
Explanation	Screenshot
<p>7. Choose <i>IF_OO_ADT_CLASS RUN (Interface)</i>.</p>	
<p>8. Choose OK.</p>	
<p>9. Choose <i>Next</i>.</p>	

Explanation	Screenshot
10. Choose <i>Finish</i> .	
<p><b>i</b></p> <p>In the editor, enter the following coding between METHOD <code>if_oo_adt_classrun~main</code> and ENDMETHOD:</p> <p>DATA: <code>lv_mths</code> TYPE <code>i</code> VALUE 10, "No. of months remaining in year</p> <p><code>lv_hols</code> TYPE <code>i</code> VALUE 20, "No. of days untaken vacation</p> <p><code>lv_avg_hols</code> TYPE <code>i</code>.</p> <p><code>lv_avg_hols = lv_hols / lv_mths.</code> <code>out-&gt;write(  Average vacation days per month { lv_avg_hols }   ).</code></p> <p>For this tutorial, this step has been performed for you.</p>	

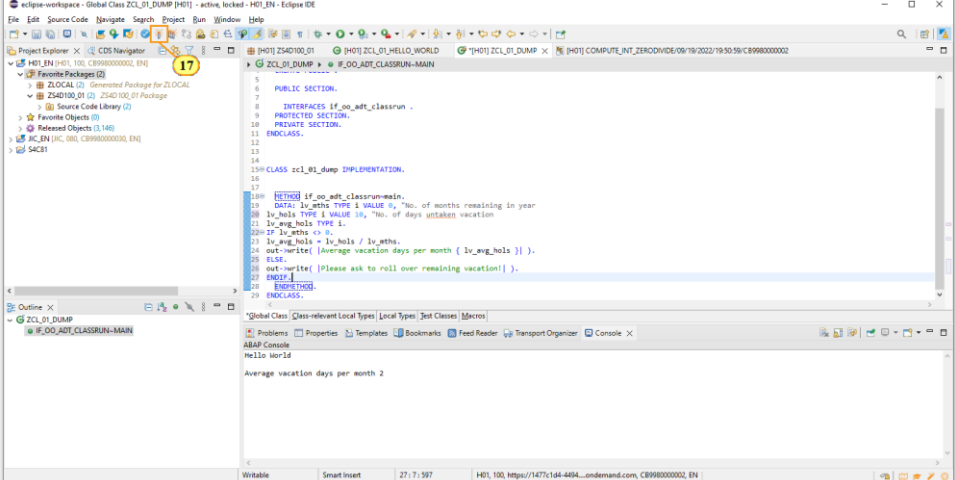
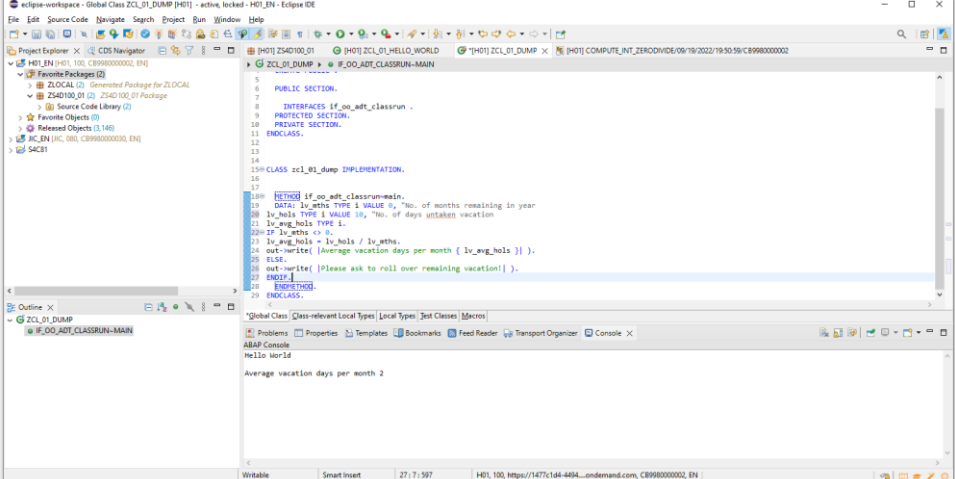
Explanation	Screenshot
<p>11. Choose <i>Activate</i>.</p>	 <p>The screenshot shows the Eclipse IDE interface. In the Project Explorer on the left, the 'ZLOCAL' package is expanded, and the 'Z540100_01' package is selected. A yellow circle with the number '11' highlights the 'Activate' button in the Package Explorer. The main editor shows the source code of the 'Z540100_01' package, which includes a class definition for 'Z540100_01' and its implementation.</p>
<p>Please press <b>F9</b>.</p>	 <p>The screenshot shows the Eclipse IDE interface. The 'Z540100_01' package is selected in the Project Explorer. A yellow circle with the text 'Please press F9' highlights the 'F9' key in the keyboard shortcuts list. The main editor shows the source code of the 'Z540100_01' package, which includes a class definition for 'Z540100_01' and its implementation.</p>
<p>12. In the <i>Value</i> field, enter <b>0</b>.</p>	 <p>The screenshot shows the Eclipse IDE interface. The 'Z540100_01' package is selected in the Project Explorer. A yellow circle with the number '12' highlights the 'Value' field in the 'Z540100_01' package properties. The main editor shows the source code of the 'Z540100_01' package, which includes a class definition for 'Z540100_01' and its implementation.</p>


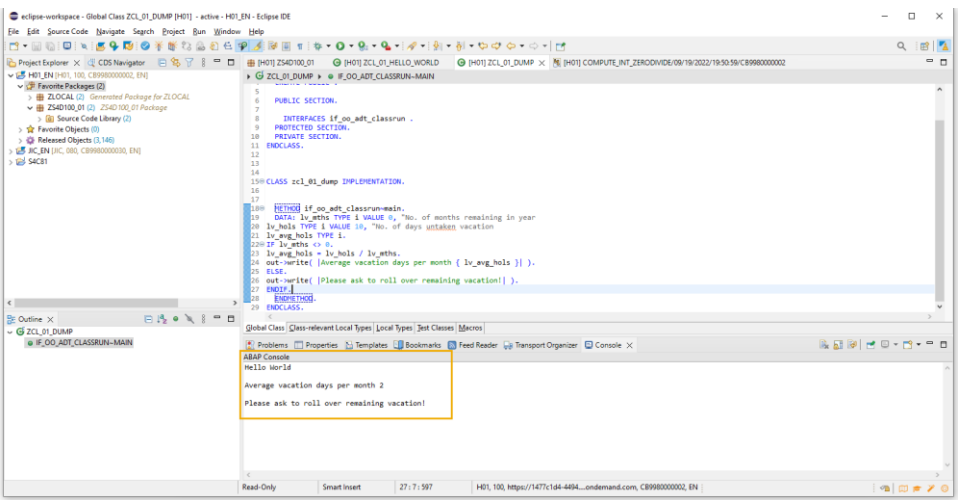

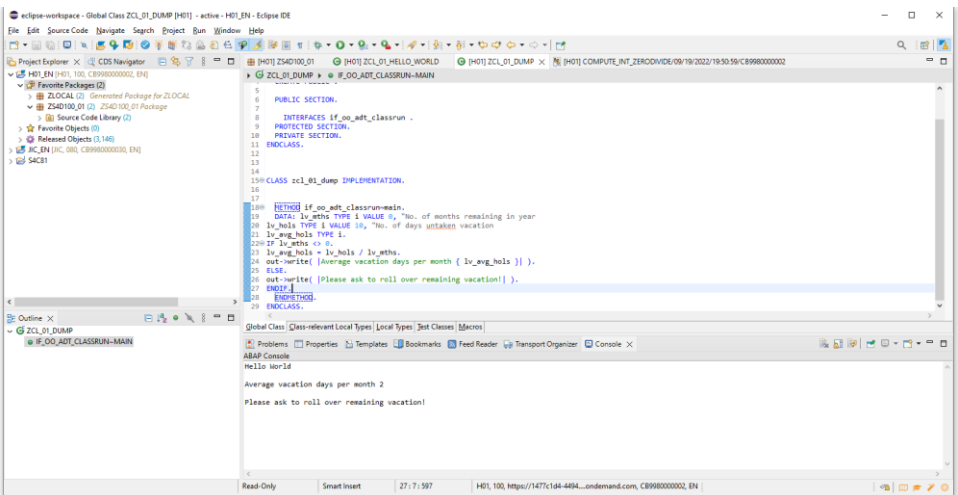
Explanation	Screenshot
<p>13. Choose <i>Activate</i>.</p>	 <p>The screenshot shows the Eclipse IDE interface. The 'Project Explorer' on the left displays the project structure. The 'Outline' view at the bottom left shows the class hierarchy. The 'Console' view at the bottom right shows the output of the program. A red circle with the number 13 highlights the 'Activate' button in the 'Console' view.</p>
<p>Please press <b>F9</b>.</p>	 <p>The screenshot shows the Eclipse IDE interface. The 'Project Explorer' on the left displays the project structure. The 'Outline' view at the bottom left shows the class hierarchy. The 'Console' view at the bottom right shows the output of the program. A red circle highlights the 'F9' key in the 'Console' view.</p>
<p>14. Choose <i>Show</i>.</p>	 <p>The screenshot shows the Eclipse IDE interface. The 'Project Explorer' on the left displays the project structure. The 'Outline' view at the bottom left shows the class hierarchy. The 'Console' view at the bottom right shows the output of the program. A red circle with the number 14 highlights the 'Show' button in the 'Console' view.</p>



Explanation	Screenshot
<p>15. To view more code, select the scroll bar to scroll down.</p>	
<p>16. Choose [H01] ZCL_01_DUMP.</p>	
<p>  Add the following code around the existing calculation:  IF lv_mths NE 0.      lv_avg_hols =      lv_hols /      lv_mths.      out-&gt;write(       Average      vacation days      per month {      lv_avg_hols } ).  ELSE.      out-&gt;write(       Please ask to </p>	



Explanation	Screenshot
<p>roll over remaining vacation  ).</p> <p>ENDIF.</p> <p>For this tutorial, this step has been performed for you.</p>	
<p>17. Choose <i>Activate</i>.</p>	
<p>Please press <b>F9</b>.</p>	

Explanation	Screenshot
<p> You can now see the output text.</p>	 <p>The screenshot shows the Eclipse IDE with the ZCL_01_DUMP class open. The console output displays the following text:</p> <pre> Hello World Average vacation days per month 2 Please ask to roll over remaining vacation!     </pre>
<p> You have successfully used conditional logic to avoid a runtime error.</p> <p>This concludes the interactive tutorial.</p>	 <p>The screenshot shows the Eclipse IDE with the ZCL_01_DUMP class open. The console output displays the following text:</p> <pre> Hello World Average vacation days per month 2 Please ask to roll over remaining vacation!     </pre>