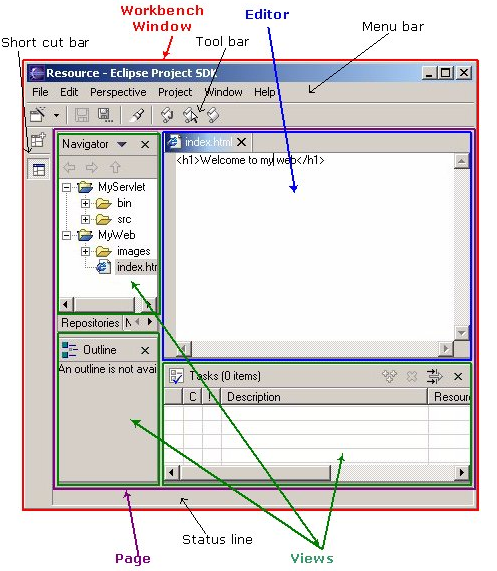
**Eclipse Tutorial 03 – More on Eclipse Environment**

1. **Perspectives**

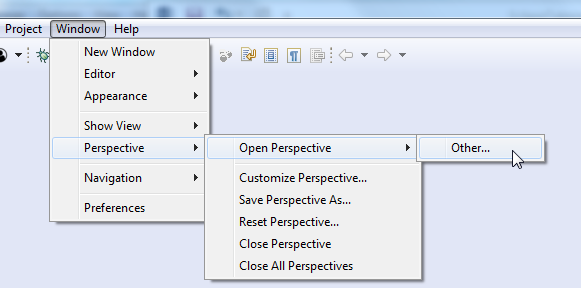
Eclipse provides views and editors to navigate and change content. View and editors can be grouped into perspectives. A perspective determines the visible actions and views within a window. An **eclipse** window can have no perspective or it can have multiple **perspectives** open in it but only one **perspective** is active at any point of time.



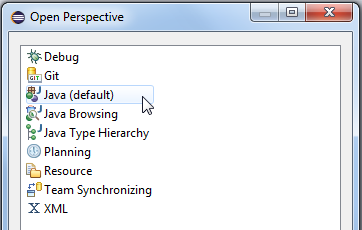
A view is typically used to work on a set of data. If data is changed via the view, the underlying data is directly changed, without the need to save. Editors are typically used to modify a single data element, e.g., the content of a file or a data object. Change in an editor are only applied once the user saves. An editor with changed data is marked with an asterisk on the left of the name of the modified file.



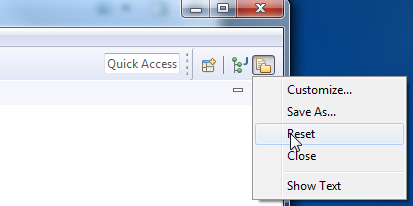
1. To open a perspective, use the menu: **Window 🡪 Open Perspective 🡪 Other**  :



1. Select the required Perspective:

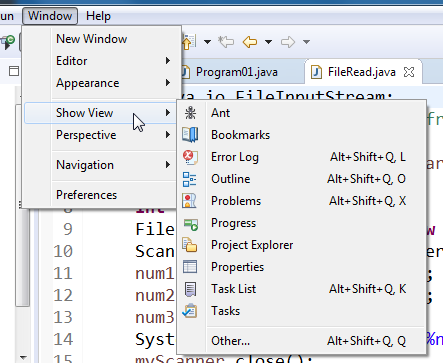


1. To reset the Eclipse window to the default Java perspective, right-click on the current perspective icon and then click **Reset**:



1. **Views**

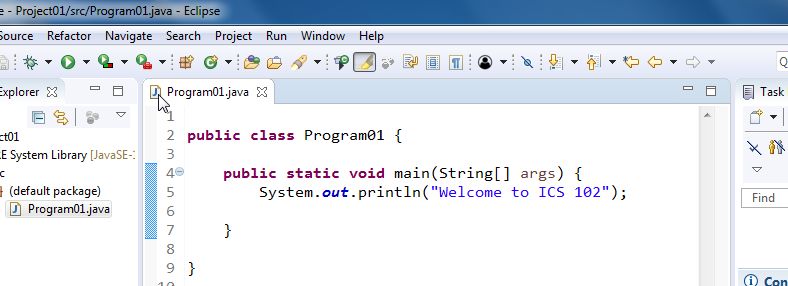
To open a view, use the menu: **Window 🡪 Show View**  :



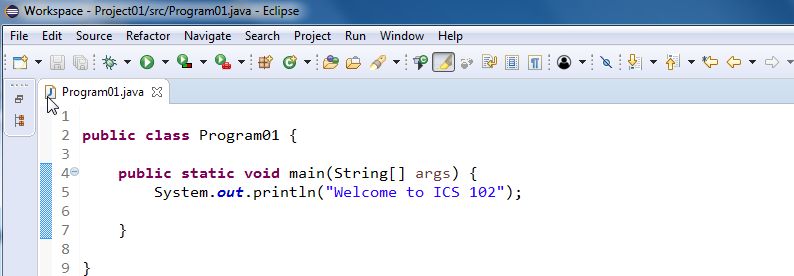
1. **Minimizing , Maximizing and Displaying Windows**

To maximize or minimize a window double-click on its icon:

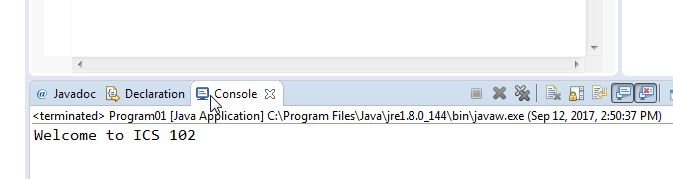
Example: Maximize the Editor window:



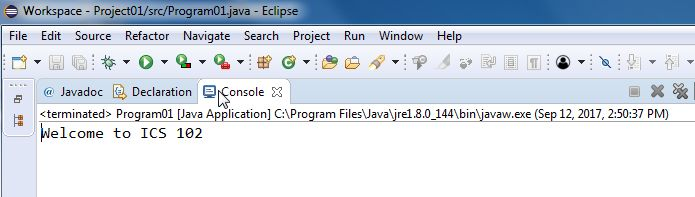
Example: Minimize the Editor window:



Example: Maximize the console window:

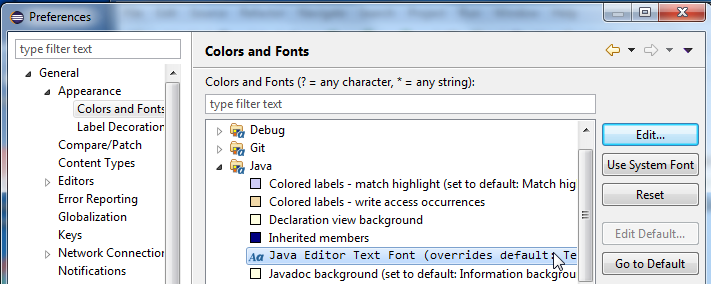


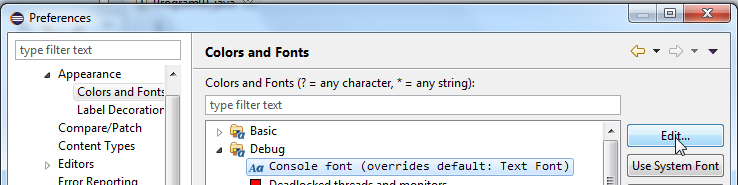
Example: Minimize the console window:



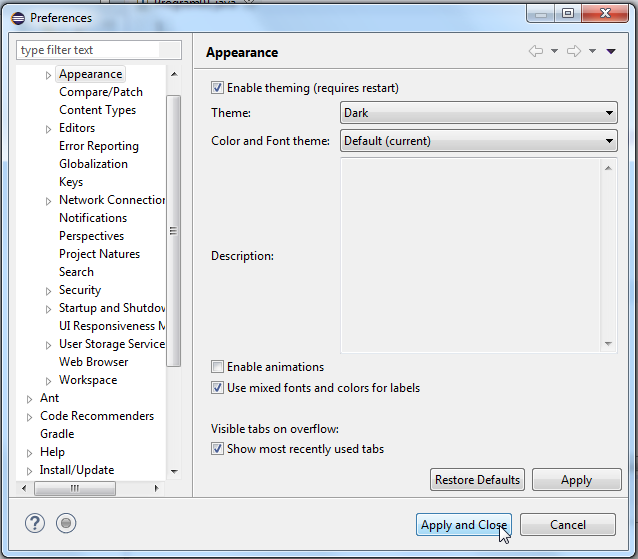
1. **Zooming in or out the Editor window**

**Click on the editor** window and then use Ctr+ or Ctrl- .Alternatively use **Window 🡪 Editor 🡪 Ctrl+ +** or **Window 🡪 Editor 🡪 Ctrl+ -**

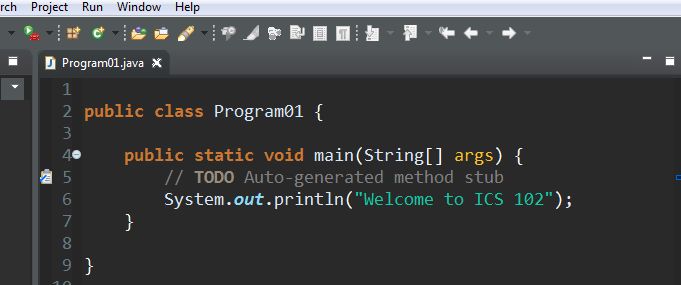
1. **Changing colors and fonts**
2. To change the Editor font, use the Menu: **Window 🡪 Preferences 🡪 General 🡪 Appearance 🡪 Colors and Fonts 🡪 Java 🡪 Java Editor Font 🡪 Edit** : 
3. To change the Console window font, use the Menu: **Window 🡪 Preferences 🡪 General 🡪 Appearance 🡪 Colors and Fonts 🡪 Debug 🡪 Console font 🡪 Edit** :



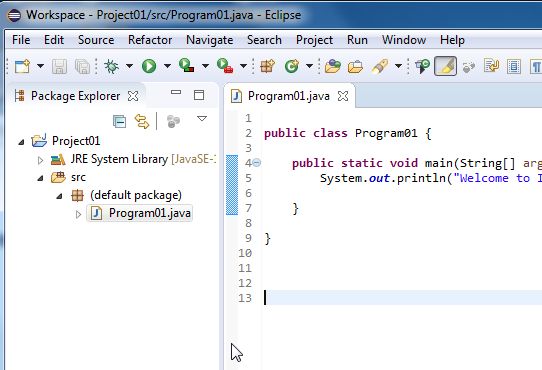
1. To change the Editor theme, use the menu: **Window 🡪 Preferences 🡪 General 🡪 Appearance** , tick the **Enable theming**, check-box, select the required theme, and click the **Apply and Close** button:



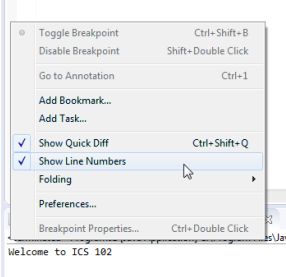
An example of a dark theme:



1. **Displaying and Hiding line numbers**
2. Right-click on the ruler on the left margin of the editor window:

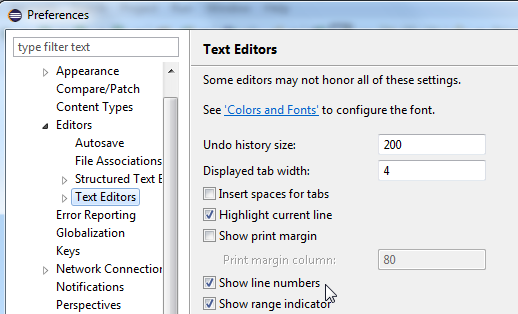


1. Check or uncheck **Show Line Numbers** :



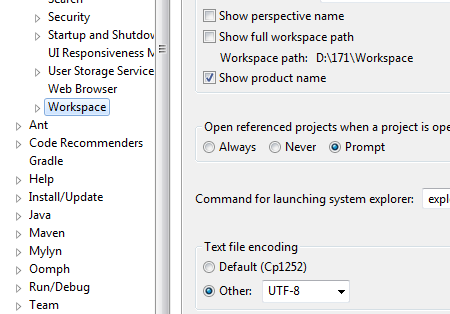
Alternatively, use the menu: **Window 🡪 Preferences 🡪 Editors 🡪 Text Editors**, then check or uncheck the **Show**

**line numbers** check-box:

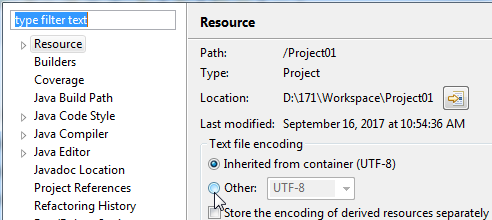


1. **Encoding text-files with UTF-8 and displaying Arabic text**

To change the Text Encoding of the Editor and Console window, Use the menu: **Window 🡪 Preferences 🡪 Workspace**, then under Text file encoding select UTF-8

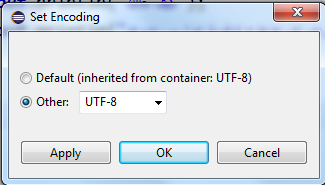


Alternatively, use the menu: **Project 🡪 Properties 🡪 Resources**:

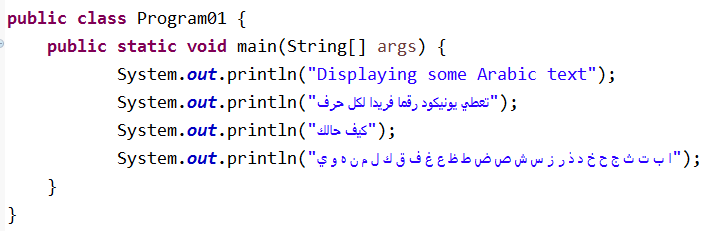


Alternatively use the menu: **Edit 🡪 Set Encoding …**

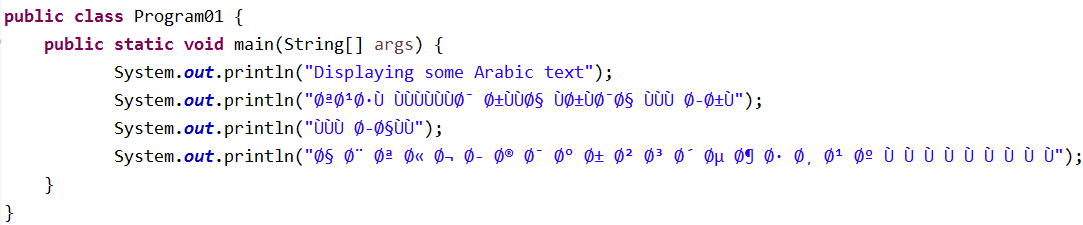
Note: To display text in Arabic, UTF-8 Encoding is required:



The following is an example of a program that has Arabic text:

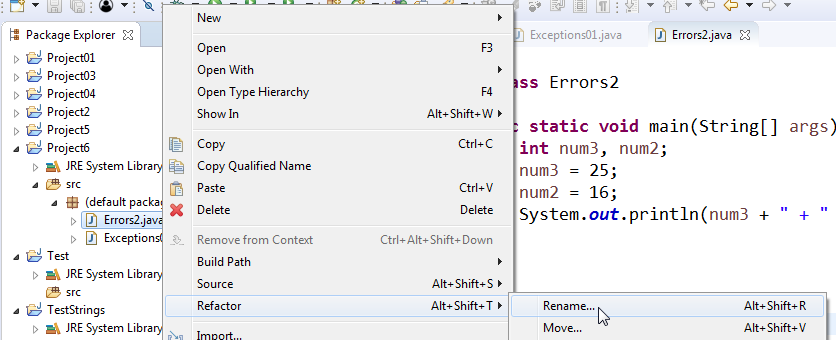


Note that if the file is encoded using an encoding other than UTF-8, garbage is displayed for Arabic text:

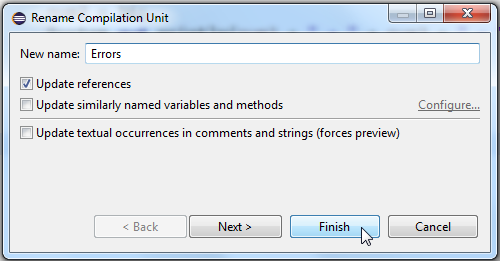


1. **Renaming a file in Eclipse**

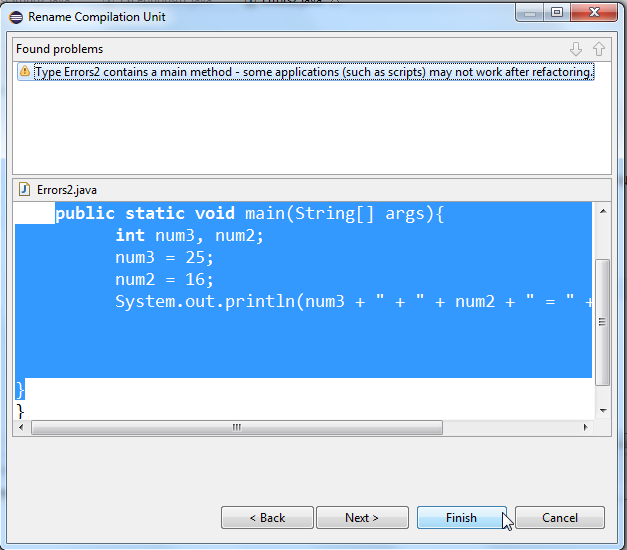
To rename a file in Eclipse, right-click on the file icon in the Package explorer, then use the menu: **Refactor 🡪 Rename**, then under Text file encoding select UTF-8



Write the new name and click the **Finish** button:



You will get a warning if the file contains a main method, click Finish to complete the renaming:



1. **Eclipse Java code Templates**

Code templates help reduce typing time by inserting code into the editor. Each code template is given a short literal. Typing the literal into the editor window and press Ctrl + Space brings up a dialog box from which a code template associated with that literal can be selected.

A useful code template literal is **sysout** which can be used to insert the **System.out.println()** method call. Some other useful templates are: **catch**, **do**, **else**, **elseif**, **for**, **if**, **switch**, **try\_catch**, **while**.

We can get to the Eclipse Java code Templates by: **Window 🡪 Preferences 🡪 Java 🡪 Editor 🡪 Templates**