|  |
| --- |
| TEMPERATURECONVERTOR |
|  |
| + celsiusToFahrenheit(double celcius): double  + celciusToKelvin(double celcius): double  + fahrenheitToCelcius(double Fahrenheit):double  + fahrenheitToKelvin(double fahrenheit):double  + kelvinToCelcius(double kelvin):double  + kelvinToFahrenheit(double kelvin):double |

What is a syntax error? How does Eclipse tell you there is a syntax error in your code?

**Syntax**errors result from using the language rules incorrectly which means that the typing something or using a syntax which a language does not support. Syntax errors are detected at compile time. The compiler detects errors in syntax and reports them with problem markers and in the problem view.

What is a runtime error?

The run time errors are the errors which are learnt at the run time. The java generally depends the run time by throwing at exception at the run time and displays which line of code is having a problem. The runtime errors in eclipse are displayed in the stack trace in the console view.

What is a logic error?

Logic errors are not detected at the compile as well as at the run time because these are errors which are undetected by Java because they are human errors which leads to incorrect output or can even lead to odd program behavior. For instance – Infinite Loop.

What is the difference between the two types of red X’s that can be indicated by Eclipse?

Simple red X



It is an error caused where the Eclipse will display the message why there is an error.

Lightbulb red X



In case of the light bulb, Eclipse provides you suggestion and you can select the suggestion to get rid of the error if you know the root cause of the error.

What does a breakpoint do?

The breakpoints basically help in inspecting your program and it stops the program execution once the breakpoint is encountered to view the variables inside a loop or conditions.

How do you set a breakpoint?

There are two ways to set the breakpoints

First open the debug mode and then one can toggle the breakpoints in two ways.

·         Double click on the left margin on the line number where you want to debug

·         From the menu go to Run -> Toggle Breakpoint

How do you remove a breakpoint?

You can remove the toggle point in the similar way as you set them.

·         Double click on the left margin on the line number where you want to debug

·         From the menu go to Run -> Toggle Breakpoint

One can also use the right click and go on the line number one want to add or remove the breakpoint.

What is the difference between the Step Into and Step Over debug controls?

Step Into Debug Controls: Execution of the program goes to the next line of code and if there is a method called then it goes into the method body.

Step Over Debug Controls: it is used to step over the next method call without entering it and the method is never stepped into it and is executed normally.