**Main things involve in the java application development:**

1. Write the code in the editor (notepad).
2. Use correct java naming conventions.
3. Save the file with appropriate name and extension.
4. Compile the code.
   1. For compilation Jdk should be installed.
   2. path should be set for javac and java.
   3. For the compilation appropriate class libraries should be available in the classpath.
5. Execute the code.
6. If required should be mechanism to provide the command-line arguments.

Eclipse provide aid to developers and make above activity user friendly.

**Eclipse**

* Eclipse is the IDE for java too provide by “ ”.
* Another example of IDE tool is Netbeans.
* Eclipse help us to organize our written code.
* Eclipse check compilation or syntax error of the code as per the Java specifications at the written time.
* It helps developer to write the compile error free code.
* It organize the code in the specified format. If we don’t provide format then eclipse use default format.
* To use formatting in eclipse, use : **ctrl + I or ctrl + shift + F**
* Eclipse also provide many plugins to support various activity like:
  + - Deployment on web server
    - Connection through SVN
    - Connection through Database
    - Deployment on app server
    - Start or stop web server or app server
* Eclipse is also helpful for debugging or check the flow of execution of the source code.

**Versions of eclipse**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N/A | 21 June 2004 | 3.0[[15]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-15) |  |  |
| N/A | 28 June 2005 | 3.1 |  |  |
| [Callisto](http://en.wikipedia.org/wiki/Callisto_(moon)) | 30 June 2006 | 3.2 | Callisto projects[[16]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-16) |  |
| [Europa](http://en.wikipedia.org/wiki/Europa_(moon)) | 29 June 2007 | 3.3 | Europa projects[[17]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-17) |  |
| [Ganymede](http://en.wikipedia.org/wiki/Ganymede_(moon)) | 25 June 2008 | 3.4 | Ganymede projects[[18]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-18) |  |
| [Galileo](http://en.wikipedia.org/wiki/Galileo_Galilei) | 24 June 2009 | 3.5 | Galileo projects[[19]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-19) |  |
| [Helios](http://en.wikipedia.org/wiki/Helios) | 23 June 2010 | 3.6 | Helios projects[[20]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-20) |  |
| [Indigo](http://en.wikipedia.org/wiki/Indigo) | 22 June 2011 | 3.7 | Indigo projects[[21]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-21) |  |
| [Juno](http://en.wikipedia.org/wiki/Juno_(mythology)) | 27 June 2012 | 3.8 and 4.2[[22]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-22)  [[Notes 1]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-23) | Juno projects[[23]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-24) |  |
| [Kepler](http://en.wikipedia.org/wiki/Johannes_Kepler) | 26 June 2013 | 4.3 | Kepler projects[[24]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-25) |  |
| [Luna](http://en.wikipedia.org/wiki/Moon) | 25 June 2014 | **4.4** | Luna projects[[25]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-26) | Integrated Java 8 support (in the previous version this was possible via a "Java 8 patch" plugin) |
| [Mars](http://en.wikipedia.org/wiki/Mars) | 24 June 2015 (planned) | 4.5 | Mars projects[[26]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-27) |  |
| [Neon](http://en.wikipedia.org/wiki/Neon) | June 2016 (planned) | 4.6 | Neon projects[[27]](http://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-28) |  |