



ECLIPSE

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INTRODUCTION *ECLIPSE IDE*



LEARNING OBJECTIVES

At the end of this lesson, you will be able to:

- Understand the importance of IDE
- Explore the features of Eclipse IDE
- Configure Eclipse IDE for Java Development





INTEGRATED DEVELOPMENT ENVIRONMENT

- Writing and Testing code using a text editor and console can be time consuming
- Integrated Development Environment (IDE)
 - Editing environments with tools to help programmers write and test code quickly and efficiently
 - Make development easier
 - Increases productivity of programmers
 - Assist with developing, testing and debugging
- Popular IDEs for Java
 - Eclipse



ECLIPSE

- Eclipse is an IDE for developing applications using the Java programming language and other programming languages such as C/C++, Python etc.
- Eclipse is open source and freely available to download
- Plugins
 - Eclipse IDE can be extended with additional software components called plugins
 - CheckStyle plugin can be added to do Static Analysis of Java Code
 - m2eclipse plugin can be added to integrate Maven with Eclipse
- Workspace
 - Physical location where the projects, source files, images and other artifact's

- Project

All the source code, associated information, settings, and preferences are in a given project.
- Plug-ins

In addition to the basic configuration, user specific tools / functions can be added via plug-ins.

Examples include tools for:

 - Static code analysis
 - File Management / Version Control
 - Testing
- Perspective

Perspectives provide window with quick access to tools specific to the type of work being performed.

 - The Java perspective stand alone application development
 - The Java EE perspective supports web application development

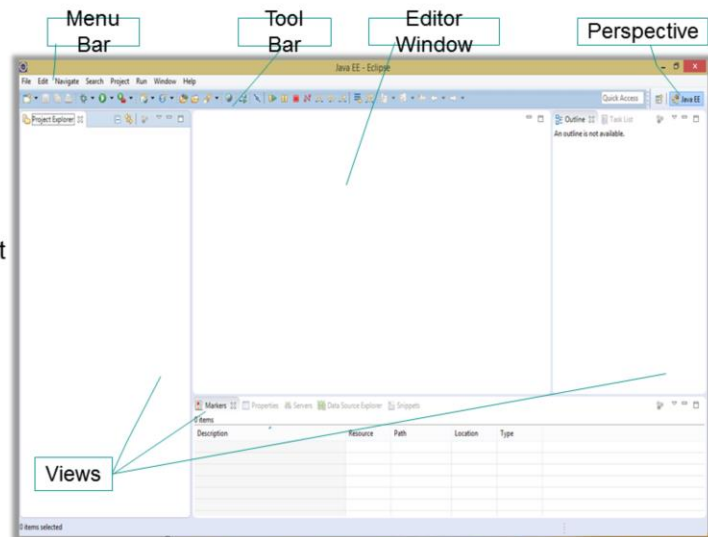


WORKBENCH LAYOUT

Workbench consists of editor windows and other set of windows called as views

Perspective

- Defines the initial set and layout of views in the Workbench window
- provides a set of functionality aimed at accomplishing a specific type of task, or working with a specific type of resource
 - Use "Java" perspective for building Stand alone java applications





USEFUL SHORTCUTS IN ECLIPSE EDITOR

- Ctrl + space : template proposals / context help
 - Ctrl + I : Correct indentation of selected text or of current line
 - Ctrl + / : Toggle Single Line Comment
 - Ctrl + Shift + / : Add Block Comment around selection
 - Ctrl + Shift + \ : Remove Block Comment around selection
 - Type sysout and Ctrl + space : System.out.println
 - Type main and Ctrl + space : main method
- **Refer to the word document for the configuration of jdk and creating java**

project



References

- Refer following demo videos on EduNxt
 - M1L2L1_Using_Eclipse_IDE - Demo





SUMMARY

ECLIPSE IDE



SUMMARY



In this lesson, you've learned to:

- Appreciate the importance of IDE
- Use Eclipse IDE for Java programming