Eclipse

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
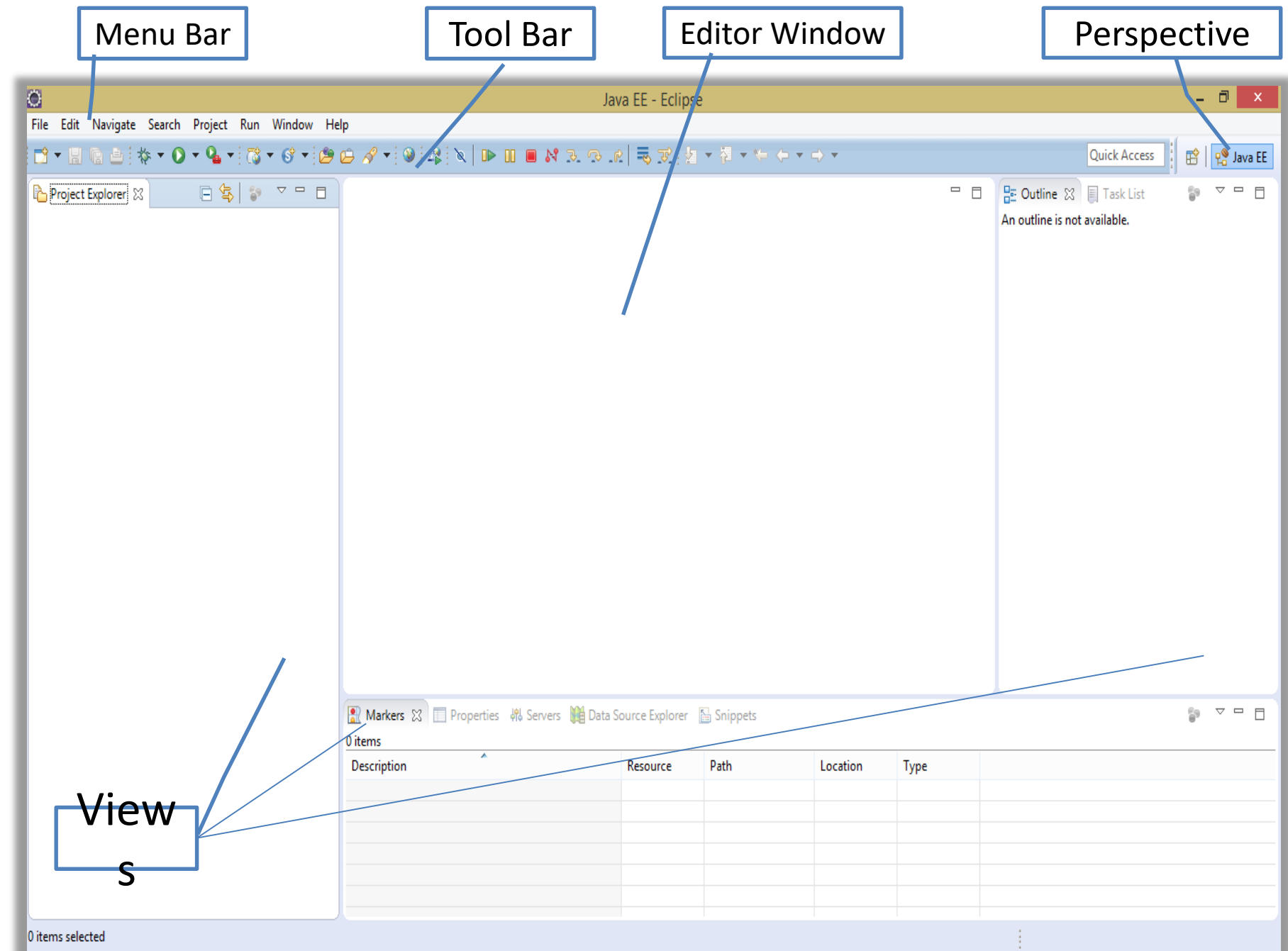
  ➢ Eclipse

  ➢ NetBeans

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 are stored

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
  - Use "JavaEE" perspective for building Enterprise java applications

Menu Bar

Tool Bar

Editor Window

Perspective

Views

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USEFUL SHORTCUTS IN ECLIPSE EDITOR

➢ Ctrl + space : template proposals / context help

➢ Ctrl + I : Correct indention 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**