

# ECLIPSE

## Eclipse:

Eclipse is an IDE(Integrated Development Environment) for developing applications by using Java programming language & other programming languages like C, C++, Perl, .. etc.,

IDE contains editors, compilers, interpreters, debuggers, plugins, .. etc.,

A plugin is a software component that can be used to extend the functionality of an IDE.

Eclipse IDE was developed by Eclipse Foundation in 2001.

Eclipse IDE developed in Java programming language.

## There are two eclipse softwares for Java.

- 1) Eclipse IDE for Java Developers
- 2) Eclipse IDE for Enterprise Java & Web Developers

Eclipse IDE for Java Developers supports JavaSE applications only.

Eclipse IDE for Enterprise Java & Web Developers supports both JavaSE & JavaEE applications.

## Steps to download Eclipse IDE:

- 1) Open the browser
- 2) Open Google
- 3) Type eclipse download in search bar
- 4) Click on the following link

<https://www.eclipse.org/downloads/>

5) Click on Download x86\_64 button

6) Click on Download button

### **Steps to Install Eclipse IDE:**

1) Open Downloads folder

2) Double click on eclipse-inst-jre-win64.exe file

3) Click on Eclipse IDE for Enterprise Java & Web Developers

4) Click on Install button

5) Click on Finish button

### **To Start Eclipse IDE:**

1) Open Installation Location:

Example: C:\Users\nit\eclipse\jee-2022-12\eclipse

2) Double click on eclipse icon

(or)

Double click on eclipse shortcut on desktop

3) Select workspace by clicking on browse button

Example:

C:\Users\nit\Desktop\530PMBatch

Note: Eclipse stores projects in a folder is called workspace.

4) Click on Launch button

## **To open Welcome page:**

- 1) Click on Help Menu
- 2) Click on Welcome

## **Perspective:**

A perspective is a layout of views & editors.

## **There are many perspectives:**

- 1) Java Perspective
- 2) JavaEE Perspective
- 3) XML Perspective
- 4) JPA Perspective, .. etc.,

To write Core Java & JDBC programs, use Java perspective.

To write Servlets, Servlet Listeners, Filters & JSP programs, use JavaEE perspective.

## **Steps to Open Perspective:**

- 1) Click on Window Menu
- 2) Click on Perspective
- 3) Click on Open Perspective
- 4) Click on Other..
- 5) Select the perspective(Example: Java)
- 6) Click on Open button

### **Steps to Close Perspective:**

- 1) Right click on perspective at top right corner.
- 2) Click on close.

### **Steps to create a project:**

- 1) Click on File Menu
- 2) Click on New
- 3) Click on Java project
- 4) Type project name(Example: jdbc)
- 5) Click on Next button
- 6) Click on Finish button

### **Steps to write JDBC program:**

- 1) Right click on jdbc in a package explorer
- 2) Click on New
- 3) Click on Class
- 4) Type class name(Example: ConnectionDemo)
- 5) Select main() method
- 6) Click on Finish button
- 7) Write the code in editor.

### **Steps to run the above application:**

- 1) Right click on jdbc in a package explorer
- 2) Click on Run As

- 3) Click on Java Application
- 4) Select ConnectionDemo.java
- 5) Click on OK button

### To add JAR(Java ARchive) files:

- 1) Right click on jdbc in a package explorer
- 2) Click on Build path
- 3) Click on Configure Build Path
- 4) Click on Libraries tab
- 5) Click on classpath
- 6) Click on Add External JARs button
- 7) Select ojdbc6\_g.jar (or) ojdbc8\_g.jar from the oracle installation location.
- 8) Click on Ok button
- 9) Click on Apply and Close button

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