

- Configuring Eclipse
  - Goto <http://www.eclipse.org/downloads/packages/eclipse-ide-java-developers/oxygen1a>
  - Click on OS bit link depends installed java bit version
  - Click on Download
  - It downloads a zip file
  - Extract the zip file to a safe location (Create new folder and extract to it)
  - Find Eclipse.exe in the extracted folder
  - Right click on it
  - Send to Desktop as short cut
  - Rename Shortcut to meaningful name
- Starting with Eclipse
  - Start eclipse by double click on shortcut
  - It will ask you to specify a folder location
    - The folder path what we specify is called workspace
  - All the future projects will be stored in side of that workspace folder
  - Give any folder path and click on launch
  - Eclipse will open with start page
- Create Project
  - File -> New -> Java Project
  - Give Project Name
  - Click on Finish
  - Make sure the JRE environment is latest
- Creating Programs in Project
  - Class is the actual program which we develop as part of automation or programming
  - A class should be there under a package
  - A package is used to segregate classes
  - If you don't specify package name while creating class then the class will be added under default package
  - The standard for giving package name is reverse of url
    - Ex: eom.ici.debitcard
  - Creating a Class
    - Right click on Project -> New -> Class
    - Give class Name
      - A class name should start with alpha character
      - Should start with Uppercase letter
      - It can contain Alpha Numeric
    - Specify Package Name
    - Select public static void main checkbox
      - This statement will add a main method to the program
      - A method is a reusable code block with keyword name assigned to it
      - A class with main method reusable and executable
      - A class without main method is only reusable
    - Click on Finish Button

```
package com.java.basics;
```

```
public class C1Demo {  
    public static void main(String[] args) {  
        System.out.println("hello world");  
    }  
}
```

- Java Syntax
  - Every statement in java should end with semicolon
  - A block is defined with { }
  - We don't need to use semicolon for blocks
  - [ ] are used for arrays
  - ( ) used for grouping
- Naming conventions
  - A class name or method name are alpha numeric and should start with alpha character
  - Method should start with small letter and class should start with uppercase letter
  - If a method name or class name is having multiple words then it should follow camel case
    - Every new word in that name starts with Uppercase
      - Ex: userRegistration
- Eclipse IDE View panes
  - Package Explorer
    - You can see all projects with hierarchy
    - Window Menu -> Show View -> Package Explorer
  - Console
    - The print output you can see here
    - Window Menu -> Show View -> Console
- If any view Pane is not visible goto
  - Window Menu -> Show View -> check the view pane name
  - Window Menu -> Show View -> Other -> Type View Pane Name