





CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

# CONTENT BEYOND SYLLABUS AND ACTION TAKEN







CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

# CONTENT BEYOND SYLLABUS AND ACTION TAKEN THEORY



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#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### CST 205 OBJECT ORINETED PROGRAMMING IN JAVA

#### **CONTENT BEYOND SYLLABUS**

# What is Eclipse?

In the context of computing, Eclipse is an integrated development environment (IDE) for developing applications using the Java programming language and other programming languages such as C/C++, Python, PERL, Ruby etc.

The Eclipse platform which provides the foundation for the Eclipse IDE is composed of plugins and is designed to be extensible using additional plug-ins. Developed using Java, the Eclipse platform can be used to develop rich client applications, integrated development environments, and other tools. Eclipse can be used as an IDE for any programming language for which a plug-in is available.

The Java Development Tools (JDT) project provides a plug-in that allows Eclipse to be used as a Java IDE, PyDev is a plugin that allows Eclipse to be used as a Python IDE, C/C++Development Tools (CDT) is a plug-in that allows Eclipse to be used for developing application using C/C++, the Eclipse Scala plug-in allows Eclipse to be used an IDE to develop Scala applications and PHPeclipse is a plug-in to eclipse that provides complete development tool for PHP.

# Licensing

Eclipse platform and other plug-ins from the Eclipse foundation is released under the Eclipse Public License (EPL). EPL ensures that Eclipse is free to download and install. It also allows Eclipse to be modified and distributed.

# **Eclipse Releases**

Every year, since 2006, the Eclipse foundation releases the Eclipse Platform and a number of other plug-ins in June.

Codename Plattorm Version Callisto 2006 3.2 Europa 2007 3.3 2008 3.4 Ganymede

2009	3.5	
2010	3.6	
2011	3.7	
2012	3.8 and 4.2	
2013	4.3	
2014	4.4.0	
	2009 2010 2011 2012 2013 2014	20093.520103.620113.720123.8 and 4.220134.320144.4.0

### **Downloading Eclipse**

You can download eclipse from http://www.eclipse.org/downloads/. The download page lists a number of flavors of eclipse.



The drop down box in the right corner of the download gage allows you to set the operating system on which eclipse is to be installed. You can choose between Windows, Linux and Mac. Eclipse is packaged as a zip file. Dr. L. PAL PAL DI DR. L. PAL NOLOGY, PAYMUR SHONEERING & KANNUR

### Installing Eclipse

To install on windows, you need a tool that can extract the contents of a zip file. For example you can use:

- 7-zip
- PeaZip
- IZArc

Using any one of these tools, extract the contents of the eclipse zip file to any folder of your choice.

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### Launching Eclipse

On the windows platform, if you extracted the contents of the zip file to c:\, then you can start eclipse by using c:\eclipse\eclipse.exe

When eclipse starts up for the first time it prompts you for the location of the workspace folder. All your data will be stored in the workspace folder. You can accept the default or choose a new location.

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If you select "Use this as the default and do not ask again", this dialog box will not come up again. You can change this preference using the Workspaces Preference Page. See the Preference tutorial page for more details.

# Parts of an Eclipse Window

The major visible parts of an eclipse window are:

- Views
- Editors (all appear in one editor area)
- Menu Bar
- Toolbar

An eclipse perspective is the name given to an initial collection and arrangement of views and an editor area. The default perspective is called java. An eclipse window can have multiple perspectives open in it but only one perspective can be active at any point of time. A user can switch between open perspectives or open a new perspective. A perspective controls what appears in some menus and tool bars.

PLORF WINDOWS



A perspective has only one editor area in which multiple editors can be open. The editor area is usually surrounded by multiple views. In general, editors are used to edit the project data and views are used to view the project metadata. For example, the package explorer shows the java files in the project and the java editor is used to edit a java file.

The eclipse window can contain multiple editors and views but only one of them is active at any given point of time. The title bar of the active editor or view looks different from all the others.

The UI elements on the menu bar and tool bar represent commands that can be triggered by an end user.

## **Using Multiple Windows**

Multiple Eclipse Windows can be open at the same time. To open a new window, click on the Windows menu and select the New Window menu item.

Each window can have a different perspective open in them. For example you could open two Eclipse windows one in the Java perspective and the other in the Debug perspective. The window showing the Java perspective can be used for editing the java code and the window showing the debug perspective can be used for debugging the application being developed.



# 4. EXPLORE MENUS

# **Typical Eclipse Menus**

The typical menus available on the menu bar of an Eclipse window are:

- File menu
- Edit menu
- Navigate menu
- Search menu
- Project menu
- Run menu
- Window menu
- Help menu



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# **BriefDescription of Menus**

Menu Name	Description
File	The File menu allows you to open files for editing, close editors, save editor content and rename files. Among the other things, it also allows you to import and export workspace content and shutdown Eclipse
Edit	The Edit menu presents items like copy & paste.
Source	The Source menu is visible only when a java editor is open. It presents a number of useful menu items related to editing java source code.
Navigate	The Navigate menu allows you to quickly locate resources and navigate to them.
Search	The Search menu presents items that allow you to search the workspace for files that contain specific data.
Project	The menu items related to building a project can be found on the Project menu.
Run	The menu items on the Run menu allow you to start a program in the run mode or debug mode. It also presents menu items that allow you to debug the code.
Window	The Window menu allows you to open and close views and perspectives. It also allows you to bring up the Preferences dialog.
Help	The Help menu can be used to bring up the Help window, Eclipse Marketplace view or Install new plug-ins. The about Eclipse menu item gives you version information.

# **Customizing Menus**

The visible menu items on a menu depend on the installed plug-ins and customization done using the <u>Customize Perspective</u> dialog box.

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# 5. EXPLORE VIEWS

## **About Views**

Eclipse views allow users to see a graphical representation of project metadata. For example the project navigator view presents a graphical representation of the folders and files associated with a project and properties view presents a graphical representation of an element selected in another view or editor.

An eclipse perspective can show any number of views and editors. All editor instances appear in a single editor area, whereas views are placed inside view folders. A workbench window can display any number of view folders. Each view folder can display one or more views.

## **Organizing Views**

The following picture shows four views arranged in a view folder.

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The picture given below shows the same four views arranged in two view folders.

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# **Moving Views**

To move a view from one view folder to another, just click on the view title and drag to the title bar area of another view folder. The green line shown below is a result of dragging the title bar of the Properties view from one view folder to the title bar area of another view folder. The Properties view can be moved to where the green line is by releasing the mouse button and sending out a drop event.

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# **Creating View Folders**

View folders can be dynamically created by dragging the title bar of a view to anywhere outside the editor area and title bar of another view folder. As you drag the title bar around, green lines will indicate where exactly the new view folder will be created.

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Moving the drag icon to the bottom of a window allows you to create a view folder that spans the entire width of the window. Moving the drag icon to the left or right edge of window allows you to create a view folder that spans the entire height of the window.

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#### Upening a view

To open a view, click on the Window menu and select the Show View menu item.

Window Help New Window 5 V New Editor **Open Perspective** > Show View ✤ Ant . Console Alt+Shift+Q, C Customize Perspective... Declaration Alt+Shift+Q, D Save Perspective As... Error Log Alt+Shift+Q, L Reset Perspective... Javadoc Alt+Shift+Q, J **Close** Perspective S. Navigator **Close All Perspectives** BE Outline Alt+Shift+Q.O 100001120111211 rastric Westerancer All+Shill+Q.X FIDDIEIIIS Progress Project Explorer Search Alt+Shift+O.5 C Structure Task List Alt+Shift+Q, K Tasks Templates 200 Type Hierarchy Alt+Shift+Q, T Other... Alt+Shift+Q, Q

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Clicking on the **Other** menu item brings up the Show View dialog box that allows you to locate and activate a view.

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The views are organized by category. To quickly locate a view, just type the name of a view into the filter text box. To open a view, select it and click on the OK button. The subsequent pages of this tutorial introduce you to a number of useful views.

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## **Using Eclipse for Java Programming**

NOTE: Before using Eclipse for the first time, create a folder on your desktop named MyWorkspace. This folder will be used to store all of your Java projects.

- Start Eclipse. (Windows: Find it under All Programs in your start Menu. Macintosh: Find it under Go > Applications in the Finder.)
- 2. Select a workspace:



- the Eclipse icon
- (a) Click on Browse and select the folder MyWorkspace from your <u>Desktop</u>. DO NOT USE ANY OTHER WORKSPACE.

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(b) Click OK. After some setup, you will see the Eclipse SDK window with a Package Explorer tab:



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 Each Java program we will write will be stored in its own project. From the Eclipse menu bar at the top of the screen, choose File > New > Java Project... You will see the following New Java Project window:

	Create a java project Create a java project Create a java project in the workspace or in an external location.	
	Project name: Contents T T Create new project in workspace	
If you are creating a Java project from scratch, you will select the first	Create project from existing source Directory: ///Sincorportion/Decelory/WyW-Aspace JRE	If you are creating a Java project from files given to
option and go to Step 4.	Use default JRE (Currently JVM 1.5.0 (MacOS X Default) <u>Configure default</u> Use a project specific JRE JVM 1.5.0 (MacOS X Default) Use an execution environment JRE J25E-1.5	the second option and go to Step 6.
	Project layout           Use project folder as root for sources and class files           Create separate folders for sources and class files	
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4. If you are starting a brand new Java project without any initial program code:

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If you are starting a Java project using a folder with Java code that is already written for you, go to Step 6 instead.

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- (a) In the New Java Project window, give the project an appropriate name that's easy to identify. For example, type in MyFirstProgram as the Project Name. You will notice that the Location is automatically updated to be a folder in your workspace with the same name.
- (b) For the "Contents" option, make sure you select "Create new project in workspace". Generally, you do not need to change any other options in this window. You should be using Java compiler 1.5.0 for your work.
- (c) Click Finish. You will see the SDK display your project in the left column, as shown in the picture on the next page.



- 5. Each program has one or more classes, one of which must contain a main method. To add a class to a project:
  - (a) Be sure that the name of the project folder is highlighted (e.g. see picture above).
  - (b) Then, from Eclipse's menu bar at the top of your desktop, select New > Class. (See next page for a picture.)
  - (c) Type in the name of the class in the space provided (e.g. FavoriteFoodDisplayer).

(d) Select the public modifier.

(e) If this class will contain a main method, check off the appropriate box under "Which method stubs would you like to create?" (In this example, our class will have a main method.)

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(f) Click Finish. You will see this class appear in the Package Explorer in your default package.



(g) Enter the following highlighted Java code exactly as it appears in the main memory as snown below:

		<pre>* Control args */ public static void main(String[] args) {     // 1000 Auto-generated method stub     String favoriteFood = "pizza";     System.out.orint("My favorite food is ");</pre>	This line is an automatically- generated comment. You may erase this linc if you wish.
--	--	---	--

If you make any syntax errors, you will see a red X appear to the left of the line with the error. Click on the X to get more info about the error if you need help.

For example, if you leave the quotation marks out from the code above, you will see something like this:



- (h) Periodically, save your work using File > Save.
- (i) If your Java program requires more than one class, you can add additional classes to your project, repeating the instructions of this step.
- (j) When you are ready to run your program, continue with step 7.
- 6. If you are creating a project using Java files that are already stored in a folder for you (for example, the folder is named MySecondProgram):

If you are starting a Java project rom scratch, go back to Step 4.

- (a) IMPORTANT: Make sure the folder with the Java files is stored inside your MyWorkspace folder before you go on to the following steps.
- (b) For the "Contents" option, select "Create project from existing source". Click the Browse button to select the <u>folder</u> that contains the Java files that you want to use to create the new project.
- (c) In the New Java Project window, enter the name of the <u>same folder</u> as the Project Name. (A message will appear as you are typing that will warn you to use the same name as the project folder.)
- (d) Click Finish. (See pictures on next page.)

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**REMEMBER:** Drag the projection folder into the MyWorkspace folder FIRST.

For an existing project folder, choose this option.

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- 7. If your program has no syntax errors, you can run your program as follows:
  - (a) In the Package Explorer, you must highlight the Java file that has the main method in it.
  - (b) Choose Run > Run As... > Java Application.
  - (c) If your program has no syntax errors, your program will run and the output will be displayed in the Eclipse SDK Console window in the bottom right section:



- 8. To remove a project from your workspace, select the name of a project in the Package Explorer (e.g. MySecondProgram), and then choose Edit > Delete. You have the option of removing just the project name or all of the code from your workspace. (Think twice before you do this!)
- To exit out of Eclipse, choose File > Exit.

Faculty in charge



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA CONTENT BEYOND SYLLABUS – ECLIPSE

#### Mode of Execution: Study Materials Given

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2	SNC21CS002	ABHINAV K	Algher.
3	SNC21CS003	ABHINAV K	Abb
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Ninnet 15/12/22 Faculty-in-charge



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# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA CONTENT BEYOND SYLLABUS - ECLIPSE

Mode of Execution: Study Materials Given

Date of Evaluation: 04/01/2023

SL.NO:	<b>REGISTER NO</b>	NAME	MARKS(20)
1	SNC21CS001	ABHINAV DHARMARAJ	10
2	SNC21CS002	ABHINAV K	6
3	SNC21CS003	ABHINAV K	6
4	SNC21CS004	ABHISREE ASHOKAN	8
5	SNC21CS005	ABIRAM SUNIL	9
6	SNC21CS006	ADARSH CHANDRAN K V	- 10
7	SNC21CS007	ADARSH KV	-11
8	SNC21CS008	ADHITHYA JITHESH	6
9	SNC21CS009	ADWAITH S NIRANJ	8
10	SNC21CS010	AKSHAY P K	8
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12	SNC21CS012	ANUDEEP K	- 13
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19	SNC21CS019	ATHIRA K V	13
20	SNC21CS020	ATHUL PAVITHRAN	11
21	SNC21CS021	B SREYAS KRISHNAN	9
22	SNC21CS022	FADI ASLAM P V	10
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34	SNC21CS035	MUHAMMED THAJUDHEEN	9
35	SNC21CS036	NANDANA M	11
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38	SNC21CS040	RAIHANA T P	9
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44	SNC21CS046	VISHAK K R	11
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# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA CONTENT BEYOND SYLLABUS – ECLIPSE

## ASSESSMENT – MCQ

# QUESTIONS

- 1. What are activities you can do in Eclipse?
  - a) Create generic projects
  - b) Edit files in a generic text editor
  - c) Share files and project in a CVS (Concurrent Version System) server
  - d) All the above
- 2. What are the Basic things an ide includes?
  - a) Source code editor
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  - c) Build automation tools
  - d) All of these
- 3. What are the key Eclipse projects and technologies?
  - a) Eclipse platform
  - b) Eclipse project
  - c) JDT or Java Development Tools
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- 4. Which of the following is a feature of the Eclipse Java Debugg
  - a) It allows users to debug code remotely

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b) It can automatically generate code snippets

d) It allows users to step through their code line by line

- 5. What is Eclipse?
  - a) A programming language
  - b) A software development environment
  - c) An operating system
  - d) A hardware device
- 6. Which programming languages are supported by Eclipse?
  - a) Only Java
  - b) Java and C++
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- 7. Which operating systems are supported by Eclipse?
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- 8. What is the name of the Eclipse plugin that provides Git integration?
  - a) EGit
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- 9. What is the name of the Eclipse plugin that provides support for the Spring Framework?a) SpringIDE
  - b) SpringSource
  - c) Spring Tool Suite

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10. Which of the following is a feature of the Eclipse Marketplace?

a) It allows users to download and install plugins

b) It provides a platform for buying and selling Eclipse plugins

c) It is a tool for managing source code repositories

d) It is a social networking site for Eclipse developers

11. Which of the following is not a view in the Eclipse IDE?

a) Package Explorer

b) Console

c) Properties

d) Compiler

12. Which of the following is a feature of the Eclipse debugger?

a) It allows users to step through their code line by line

b) It can detect and fix common coding errors

c) It automatically generates test cases for the code

d) It provides real-time performance metrics for the code

13. Which of the following is not a perspective in the Eclipse IDE?

a) Java

b) Debug

c) Web

d) Database

14. Which of the following is a feature of the Eclipse text editor?

a) It provides syntax highlighting for many programming languages

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c) It includes a built-in code formatter

d) It allows users to write code in natural language

- a) Code refactoring
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- 16. What is the main programming language code developed by eclipse?
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#### 18. What is an Eclipse?

- a) IDE
- b) Software
- c) GNU
- d) Code base
- 19. Eclipse is used to develop documents with LaTex.
  - a) True
  - b) False
- 20. Development environment include the

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Dr. LEENA A. V. DINCIPAL b) Classpath

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- c) Eclipse JDT
- d) IcedTea

#### **ANSWER KEY**





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CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

# CONTENT BEYOND SYLLABUS AND ACTION TAKEN

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# Sree Narayana Guru College of Engineering & Technology



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

Est. 2003

#### DEPARTMENT OF MECHANICAL ENGINEERING

#### ASSESMENT FOR CONTENT BEYOND SYLLUBUS

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1	ARJUN SHYLESH	9
2	ASHISH K K	9
3	ASHWIN JOHN	10
4	ASWIN BABU M V	9
5	ASWIN P P	9
6	DHEERAJ K V	8
7	KN MUHAMMED MISHAL	9
8	MAJID V V	7
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