

Lab 1 final

1. Execute the Hello World program and the modifications to it as given in slides Java_Lec1.

Slide number: 33, 34, 35, 36

2. Ensure that you change the Javadoc comments when you change the code
 3. Obtain the Javadoc html file for your code
-

1. Modify the code made above to incorporate the following
 - a. Your program should take the following inputs from the user. Sample lines of code using Scanner class are given below. You will need to use a relevant method in place of the `nextLine()` method (`nextInt()`, `nextDouble()`..)
 - i. Number of students (int)
 - ii. Marks for each student (double)
 - b. Output should be
 - i. Highest marks
 - ii. Percentage marks for all students wrt to the maximum marks

Example: if the input is

5

10.0

20.0

5.0

20.0

Output should be

Highest is 20.0

Marks as percentage

50

100

25

100

Example 1: Read a Line of Text Using Scanner

```
import java.util.Scanner;

class Main {
    public static void main(String[] args) {

        // Creates an object of Scanner
        Scanner input = new Scanner(System.in);

        System.out.print("Enter your name: ");

        // Takes input from the keyboard
        String name = input.nextLine();

        // Prints name
        System.out.println("My name is " + name);

        // Closes the scanner
        input.close();
    }
}
```

Output

```
Enter your name: Jack
My name is Jack
```

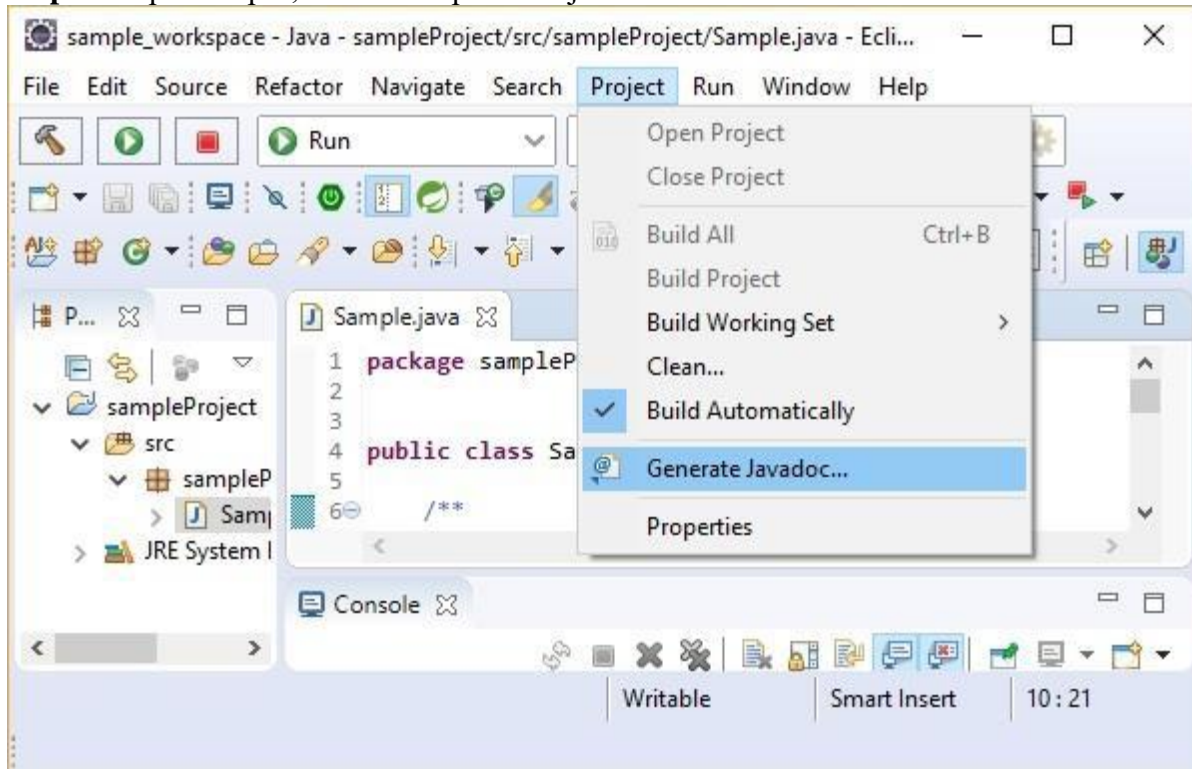
Javadoc_from Eclipse

To generate Java docs for your project you need to write the required information about the field, method or class as.

```
/**
 *
 * The method prints a simple message on the Console.
 *
 */
```

Then to generate the document follow the steps given below –

Step 1 – Open eclipse, select the option Project →Generate Javadoc.



Step 2 – Select the javadoc.exe file from the bin folder of java installation directory, select the destination folder for the generated java doc and select **Next**.

Generate Javadoc

Javadoc Generation

Select types for Javadoc generation.

Javadoc command:
C:\Program Files\Java\jdk1.8.0_101\bin\javadoc.exe Configure...

Select types for which Javadoc will be generated:


Create Javadoc for members with visibility:
☐ Private ☐ Package ☐ Protected ☒ Public
Public: Generate Javadoc for public classes and members.

☒ Use standard doclet
Destination: C:\sample_workspace\sampleProject\doc Browse...

☐ Use custom doclet

? < Back Next > Finish Cancel

Step 3 – Type the title of the documentation in the **Document title** and select the finish button.

 **Generate Javadoc**

Javadoc Generation

Configure Javadoc arguments for standard doclet.

☒ Document title:






Basic Options

- ☒ Generate use page
- ☒ Generate hierarchy tree
- ☒ Generate navigator bar
- ☒ Generate index
- ☒ Separate index per letter

Document these tags

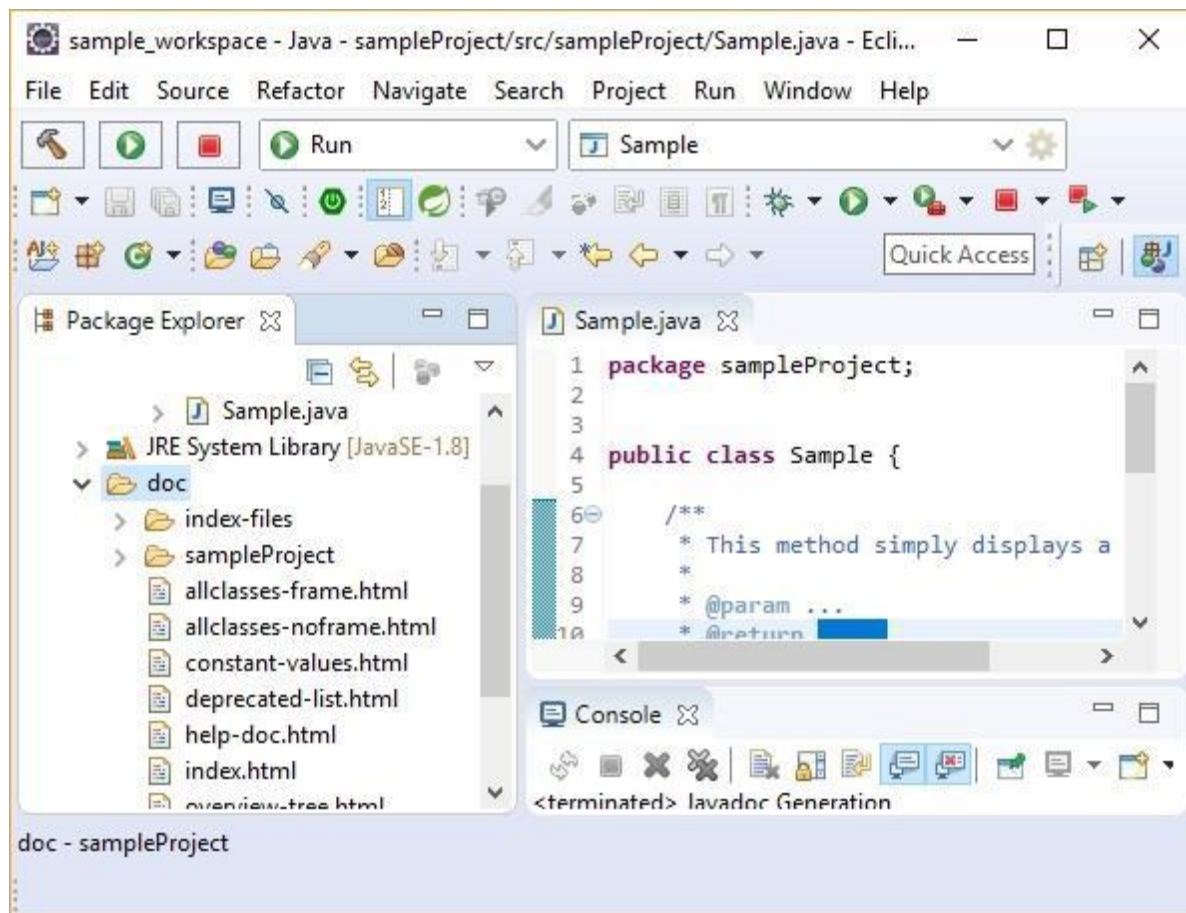
- ☒ @author
- ☒ @version
- ☒ @deprecated
- ☒ deprecated list

Select referenced archives and projects to which links should be generated:

- ☐  access-bridge-64.jar - not configured
- ☐  charsets.jar - <https://docs.oracle.com/javase/8/docs/api/>
- ☐  cldrdata.jar - not configured
- ☐  dnsns.jar - not configured
- ☐  jaccess.jar - not configured

☐ Style sheet:

Step 4 – Finally, you can observe the generated doc files in the generated folder.



You can view the document by opening the **index.html** file with the browser.

