

## Hello World Code Snippet

The screenshot displays the Eclipse IDE interface with a Java project named 'dit1334\_ood'. The Package Explorer on the left shows the project structure: 'dit1334\_ood' contains 'JRE System Library [JavaSE-21]', 'src' contains 'dit1334\_ood\_firstProject', which contains 'helloWorld.java', 'w1\_LabPractical1', and 'module-info.java'. The main editor shows the code for 'helloWorld.java'.

```
1 package dit1334_ood_firstProject; //my Package name
2 //Author name: Low Kah Sheng
3 //Date create: 11.09.2025
4 //Purpose of Code: Create First Java Project
5
6 //Library that being imported when necessary
7
8 public class helloWorld{ // "public class" is fixed, but the "helloWorld" can be changed as your wish because it is the name of your class
9     public static void main (String[] args) { //this line is compulsory
10         System.out.println("Hello World!");
11         System.out.println("This is my first project.");
12         System.out.print("I'm proud with my code.");
13     } // this line is compulsory to complete the public class void main's "{"
14 } // this line is compulsory to complete the public class"s"
```

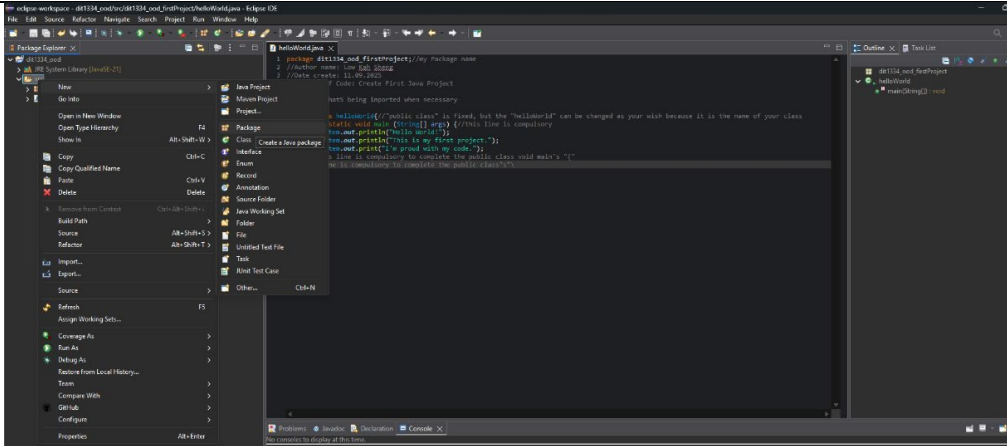
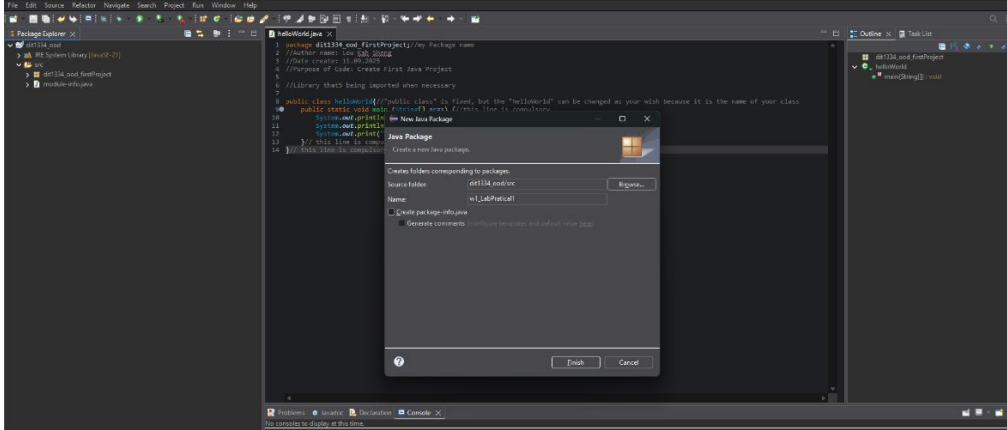
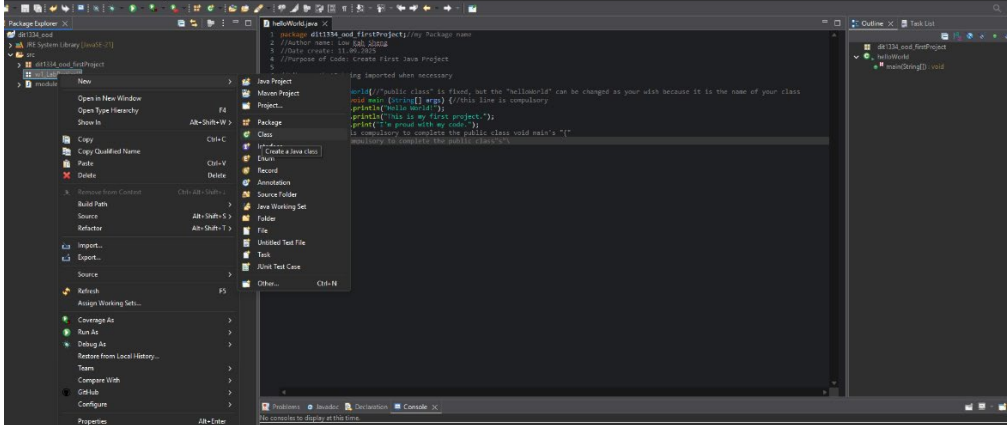
The Outline view on the right shows the project structure: 'dit1334\_ood\_firstProject' contains 'helloWorld', which contains 'main(String[]) : void'.

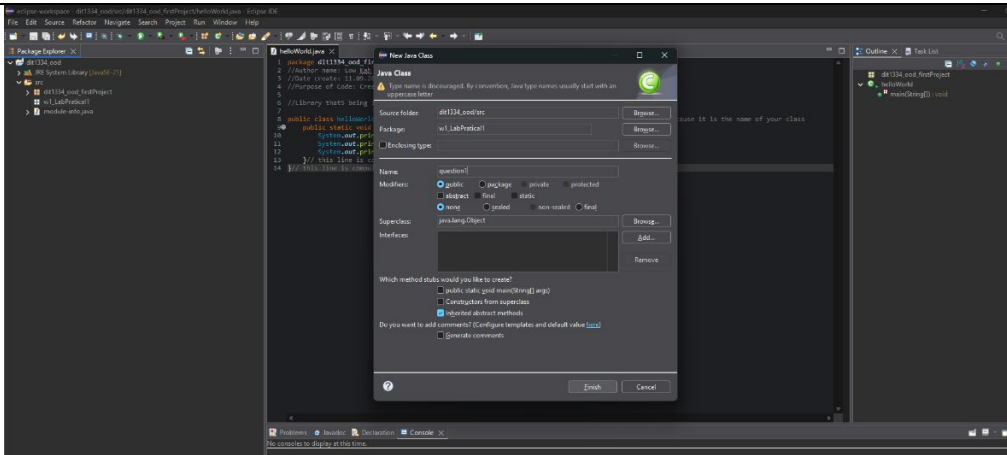
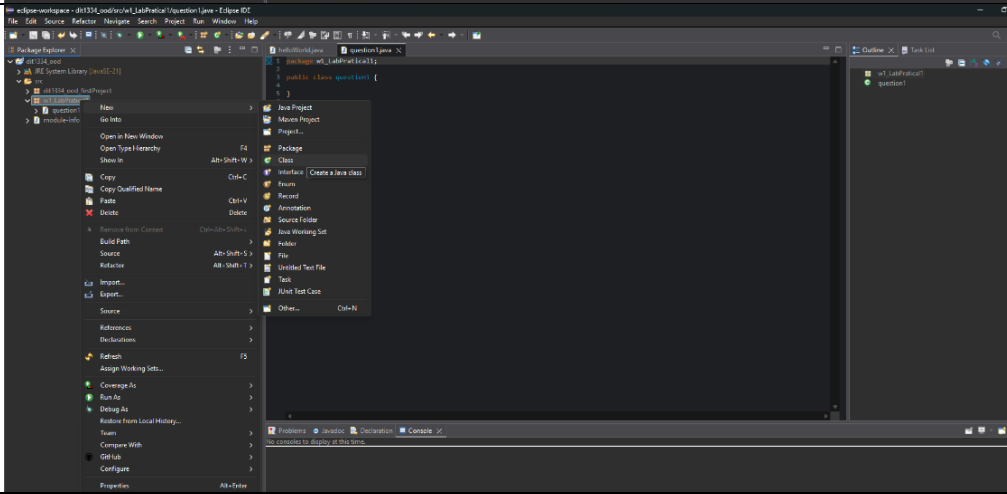
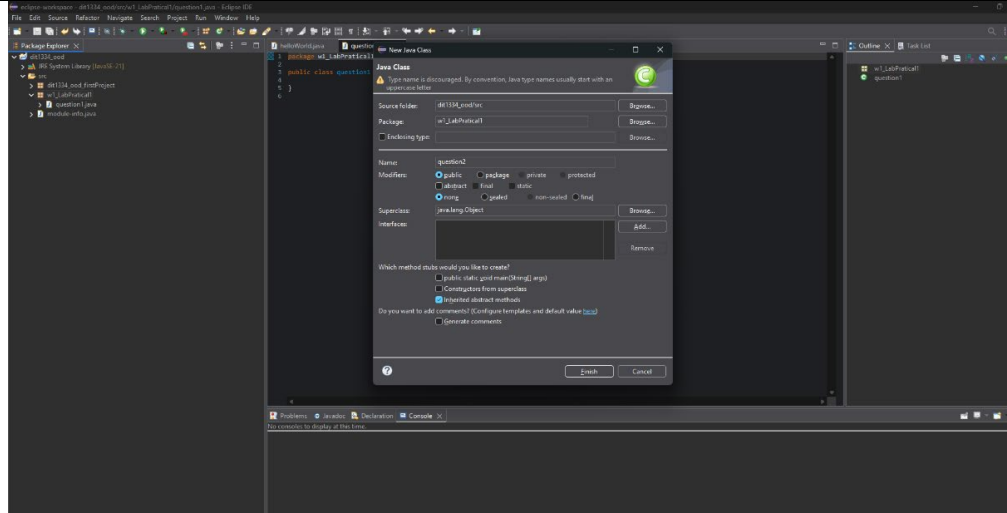
The Console view at the bottom shows the output of the program:

```
<terminated> helloWorld [Java Application] C:\Users\Admin\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.8.v20250724-1412\jre\bin\javaw.exe (12 Sept 2025, 5:33:25 pm – 5:33:26 pm elapsed: 0:00:00.144) [pid: 15036]
Hello World!
This is my first project.
I'm proud with my code.
```

The status bar at the bottom indicates 'Writable', 'Smart Insert', and '1:1:0'.

## Advanced version

Step No.	Description	Screenshot
1	Create a new package under src	
2	Named the new package as w1_LabPractical1 under src	
3	Create a new class under package w1_LabPractical1	

4	Named the new class as question 1	
5	Create another new class under package w1_LabPractical1	
6	Named the new class as question 2	

## Class question 1

```
1 package w1_LabPractical1; //my Package name
2 //Author name: Low Kab Seng
3 //Date create: 11.09.2025
4 //Purpose of Code: Week 1 - Lab Practical
5
6 //Library that being imported when necessary
7
8 import java.util.Scanner;
9 public class SimpleAddition { // "public class" is fixed, but the "SimpleAddition" can be changed as your wish because it is the name of your class
10     public static void main(String[] args) { // this line is compulsory
11         try (Scanner input = new Scanner(System.in)) {
12             System.out.print("Enter first number:");
13             int num1 = input.nextInt();
14
15
16             System.out.print("Enter second number:");
17             int num2 = input.nextInt();
18
19
20             int sum = num1 + num2;
21             System.out.println("The sum is: " + sum);
22         } // this line is compulsory to complete the public class try-with-resources's "{"
23     } // this line is compulsory to complete the public class void main's "{"
24 } // this line is compulsory to complete the public class's "{"
```

Console Output:

```
<terminated> SimpleAddition [Java Application] C:\Users\Admin\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.8.v20250724-1412\jre\bin\javaw.exe (12 Sept 2025, 1:35:37 am - 1:35:41 am elapsed: 0:00:04.263) [pid: 2000]
Enter first number:10
Enter second number:5
The sum is: 15
```

Code Line No	Errors encountered	Solution used	References
1	The declared package "" does not match the expected package "w1_LabPractical1"	Correct the package declaration by add package w1_LabPractical1; on line 1	Use the tips from eclipse
2	The public type SimpleAddition must be defined in its own file	Rename file from question1.java to SimpleAddition.java	Use the tips from lesson
4	Resource leak: 'input' is never closed	Surround with try-with-resources	Use the tips from eclipse

## Class question 2

```

1 package w1_LabPractical1; //my Package name
2 //Author name: Low Kai Sheng
3 //Date create: 11.09.2025
4 //Purpose of Code: Week 1 - Lab Practical
5
6 //Library that being imported when necessary
7
8
9 import java.util.Scanner;
10
11 public class EvenOddCheck { // "public class" is fixed, but the "EvenOddCheck" can be changed as your wish because it is the name of your class
12     public static void main (String[] args) { // this line is compulsory
13         try (Scanner input = new Scanner(System.in)) {
14             System.out.print("Enter a number: ");
15             int number = input.nextInt();
16
17
18             if (number % 2 == 0) {
19                 System.out.println(number + " is Even.");
20             } else {
21                 System.out.println(number + " is Odd.");
22             }
23             // this line is compulsory to complete the public class else 's' "{"
24             // this line is compulsory to complete the public class try-with-resources 's' "{"
25             // this line is compulsory to complete the public class void main 's' "{"
26         } // this line is compulsory to complete the public class 's' "{"
27     }
28 }

```

Console Output:

```

Enter a number: 15
15 is Odd.

```

Code Line No	Errors encountered	Solution used	References
6	The public type SimpleAddition must be defined in its own file	Rename file from question1.java to SimpleAddition.java	Use the tips from eclipse
8	Resource leak: 'input' is never closed	Cause of Resource leak: 'input' is never closed so that's surround with try-with-resources	Use the tips from eclipse