**Assisted Practice: 3.9 The Diamond Problem**

This section will guide you to:

* Write a program in Java to resolve the diamond problem using OOPs’ concepts
* Use Eclipse (the popular text editor for Java programs)
* Push code to Git

This lab has three sub-sections, namely:

* + 1. Creating a new project in Eclipse
    2. Writing a program in Java to resolve the diamond problem using OOPs’ concepts
    3. Pushing the code to your GitHub repositories

**Step 3.9.1:** Creating a new project in Eclipse

* Open Eclipse
* Go to File -> New -> Project -> Java Project -> Next.
* Type in any project name and click on “Finish.”
* Select your project and go to File -> New -> Class.
* Enter **TestClass** in class name, check the checkbox “public static void main(String[] args)”, and click on “Finish.”

**Step 3.9.2:** Writing a program in Java to resolve the diamond problem using OOPs’ concepts

interface First

{

default void show()

{

System.out.println("Default First");

}

}

interface Second

{

default void show()

{

System.out.println("Default Second");

}

}

public class TestClass implements First, Second

{

public void show()

{

First.super.show();

Second.super.show();

}

public static void main(String args[])

{

TestClass ob = new TestClass();

ob.show();

}

}

**Output:**



**Step 3.9.3:** Pushing the code to your GitHub repositories

* Open your command prompt and navigate to the folder where you have created your files.

**cd <folder path>**

* Initialize your repository using the following command:

**git init**

* Add all the files to your git repository using the following command:

**git add .**

* Commit the changes using the following command:

**git commit . -m “Changes have been committed.”**

* Push the files to the folder you initially created using the following command:

**git push -u origin master**