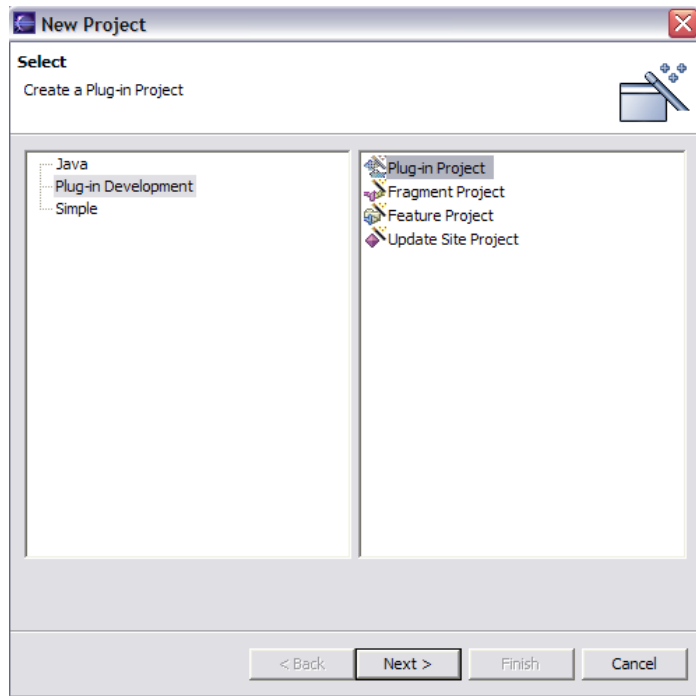
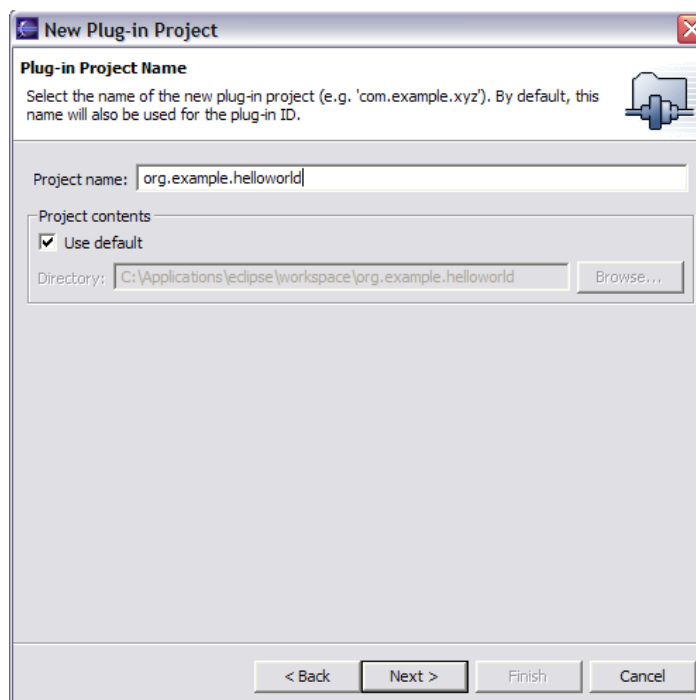


Lab 3 Creating a 'Hello World' Plug-in

1. Select File>New>Project from the menu bar and select the options as shown and click on the 'next' button.

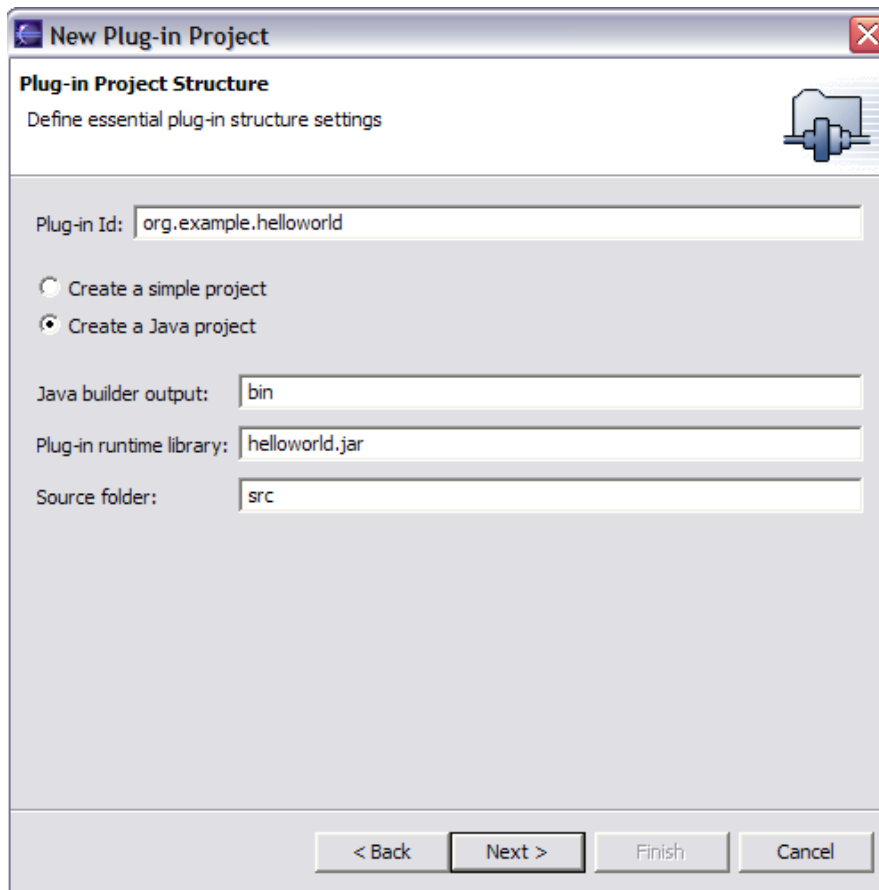


2. Enter the project name: 'org.example.helloworld' and select the Next button.



3. In the next window define the plug-in structure as follows:

- a. **Java builder output** specifies where Eclipse places the generated class files.
- b. **Plug-in runtime library** specifies the JAR file that contains your Java code.
- c. **Source folder** lets you specify the subdirectory where the Java files of your project are to be kept.



New Plug-in Project

Plug-in Project Structure
Define essential plug-in structure settings

Plug-in Id:

☐ Create a simple project
☒ Create a Java project

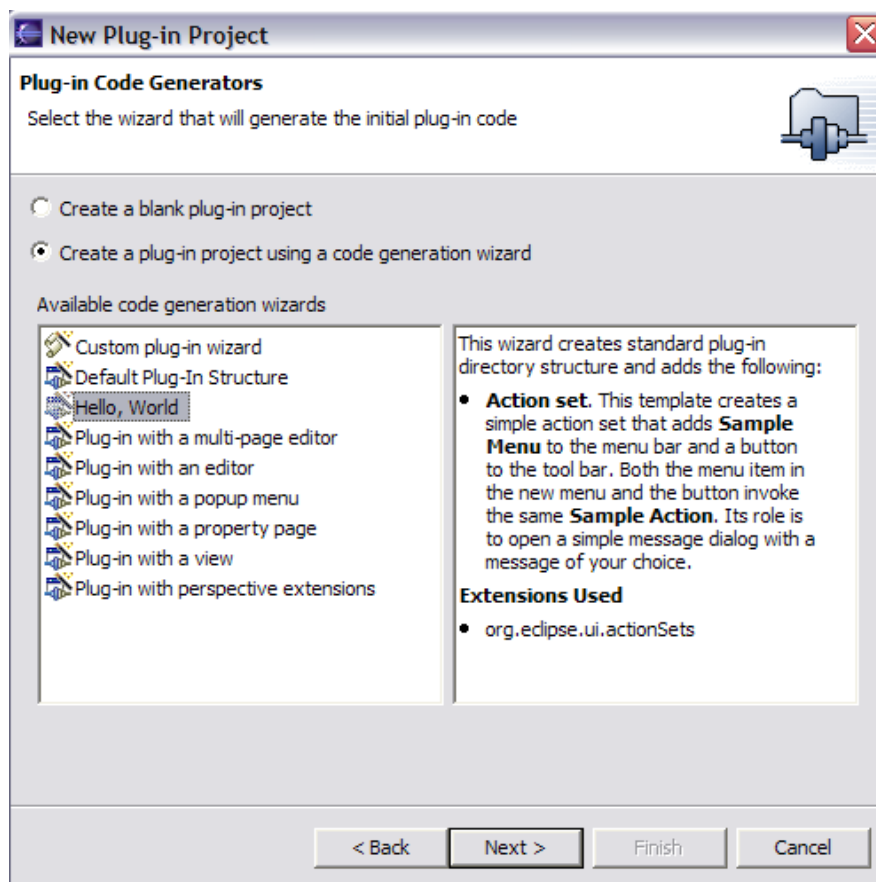
Java builder output:

Plug-in runtime library:

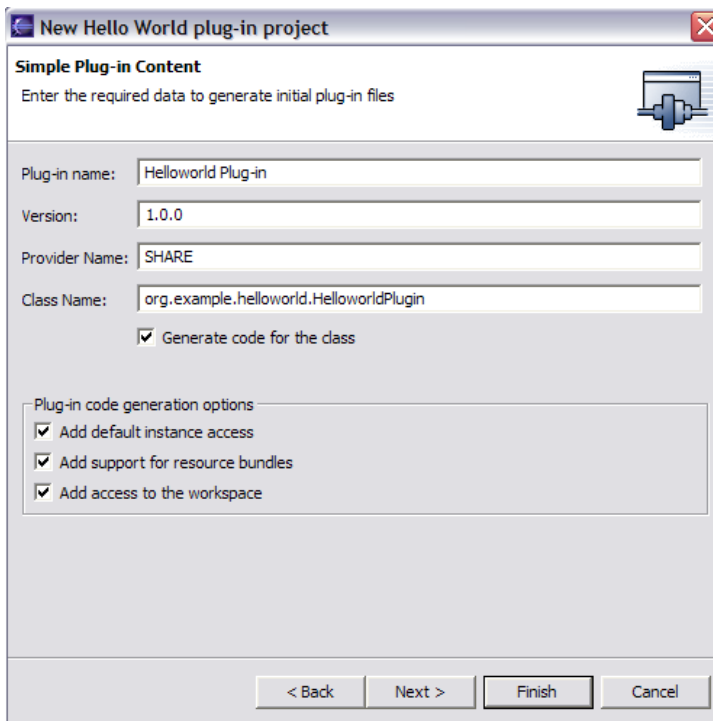
Source folder:

< Back **Next >** Finish Cancel

4. The next window enables you to select the plug-in code generator.
Firstly enable **Create a plug-in project using a code generation wizard**.
In the case of 'Hello World' a sample code generator is supplied. Select this.
Select next.



5. Fill in the fields to define the plug-in content as below and select **Finish**



The screenshot shows the 'New Hello World plug-in project' dialog box with the 'Simple Plug-in Content' tab selected. The dialog box has a title bar with a close button. Below the title bar is a sub-header 'Simple Plug-in Content' and a description 'Enter the required data to generate initial plug-in files'. There is a small icon of a plug-in in the top right corner. The main area contains several text input fields: 'Plug-in name:' with the value 'Helloworld Plug-in', 'Version:' with '1.0.0', 'Provider Name:' with 'SHARE', and 'Class Name:' with 'org.example.helloworld.HelloworldPlugin'. Below these fields is a checkbox labeled 'Generate code for the class' which is checked. Underneath is a section titled 'Plug-in code generation options' containing three checked checkboxes: 'Add default instance access', 'Add support for resource bundles', and 'Add access to the workspace'. At the bottom of the dialog are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

Plug-in name: Helloworld Plug-in

Version: 1.0.0

Provider Name: SHARE

Class Name: org.example.helloworld.HelloworldPlugin

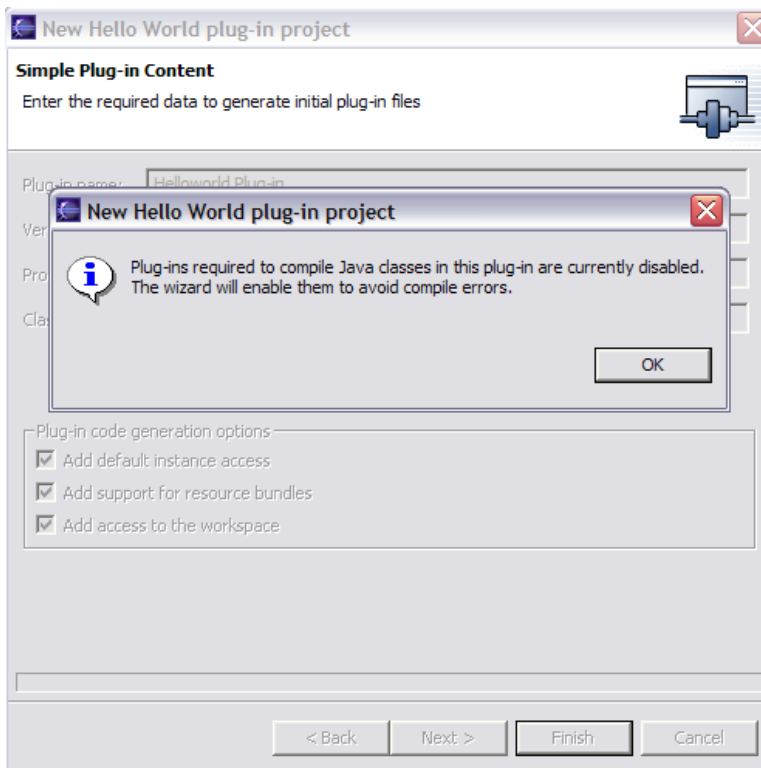
☒ Generate code for the class

Plug-in code generation options

- ☒ Add default instance access
- ☒ Add support for resource bundles
- ☒ Add access to the workspace

< Back Next > Finish Cancel

6. Enable needed plug-ins



This screenshot shows the same 'New Hello World plug-in project' dialog box as in the previous image, but with an error message overlay. The error message is in a smaller dialog box with a title bar and a close button. It contains an information icon and the text: 'Plug-ins required to compile Java classes in this plug-in are currently disabled. The wizard will enable them to avoid compile errors.' There is an 'OK' button at the bottom right of the error message dialog. The background dialog box is partially obscured by the error message dialog.

Plug-in name: Helloworld Plug-in

Version: 1.0.0

Provider Name: SHARE

Class Name: org.example.helloworld.HelloworldPlugin

☒ Generate code for the class

Plug-in code generation options

- ☒ Add default instance access
- ☒ Add support for resource bundles
- ☒ Add access to the workspace

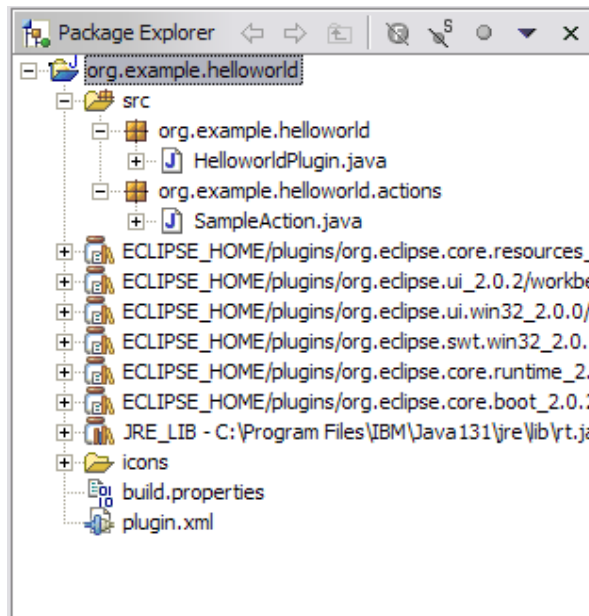
< Back Next > Finish Cancel

New Hello World plug-in project

Plug-ins required to compile Java classes in this plug-in are currently disabled. The wizard will enable them to avoid compile errors.

OK

6. The plug-in has been created. The file structure ...



7. The plug-in can be run either by deploying the created files into the plug-ins directory, which is the subject of Lab 4, or run in a new spawned Eclipse image. The second approach is used for plug-in development and is described here:

1. Build your project: **Select Project > Rebuild All.**
2. Select **Run > Run As > Run-time Workbench.** A new Workbench appears that includes your new plug-in menu and toolbar button.
3. Click on the toolbar button and a dialog box comes up with message "Hello, Eclipse World."

