



Guideline for using the examples of REHUNT v1.2

In order to help the reviewers and readers to actually try it, we have provided one of intuitive ways running in windows 64-bit operating system to guide reviewers and readers to perform the examples. (Note! The guideline is only provided for perform the REHUNT examples for non-professional users and developers. The professional users and developers can use their ways to integrate and develop REHUNT to their applications.)

1. First, you must download and install Java SE Development Kit 8 (<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>).

Please click “Accept License Agreement” and then click “jdk-8u144-windows-x84.exe” to download Java SE Development Kit 8 (see Fig. 1).

1. Click here to accept License Agreement

2. Click here to download JDK 8

Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	77.89 MB	jdk-8u144-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	74.83 MB	jdk-8u144-linux-arm64-vfp-hflt.tar.gz
Linux x86	164.65 MB	jdk-8u144-linux-i586.rpm
Linux x86	179.44 MB	jdk-8u144-linux-i586.tar.gz
Linux x64	162.1 MB	jdk-8u144-linux-x64.rpm
Linux x64	176.92 MB	jdk-8u144-linux-x64.tar.gz
Mac OS X	226.6 MB	jdk-8u144-macosx-x64.dmg
Solaris SPARC 64-bit	139.87 MB	jdk-8u144-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	99.18 MB	jdk-8u144-solaris-sparcv9.tar.gz
Solaris x64	140.51 MB	jdk-8u144-solaris-x64.tar.Z
Solaris x64	96.99 MB	jdk-8u144-solaris-x64.tar.gz
Windows x86	197.78 MB	jdk-8u144-windows-i586.exe
Windows x64	197.78 MB	jdk-8u144-windows-x64.exe

Fig. 1. Download and install Java SE Development Kit 8



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After finishing the download, you will get “jdk-8u144-windows-x64.exe”. Please double click “jdk-8u144-windows-x64.exe” to install JDK. All install processes are performed by the default options, please click the “Next” button continually (see Fig. 2 and Fig. 3).

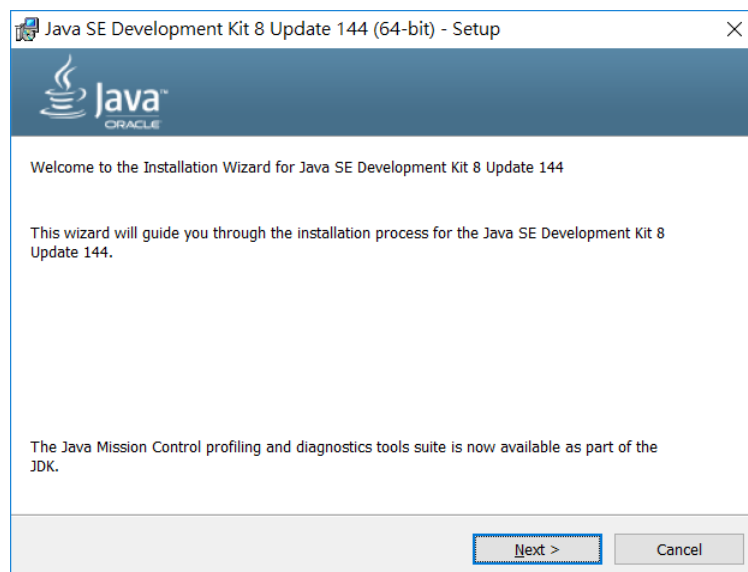


Fig. 2. Install Java SE Development Kit 8

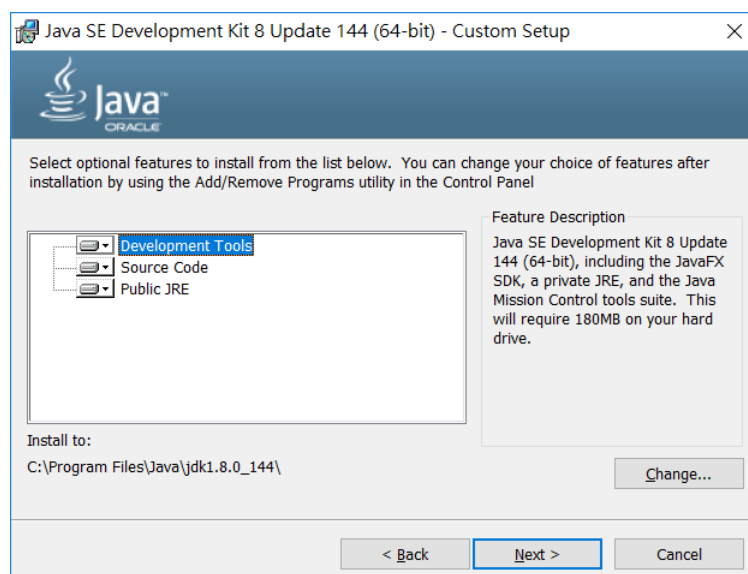


Fig. 3. Select the install path for JDK 8



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2. Second, please download eclipse IDE for Java developers (<http://www.eclipse.org/downloads/packages/eclipse-ide-java-developers/oxygen1>).

Please click the link of “window 64-bit” If your operating system is window 64-bit (see Fig. 4), else please click the corresponding link for your operating system.

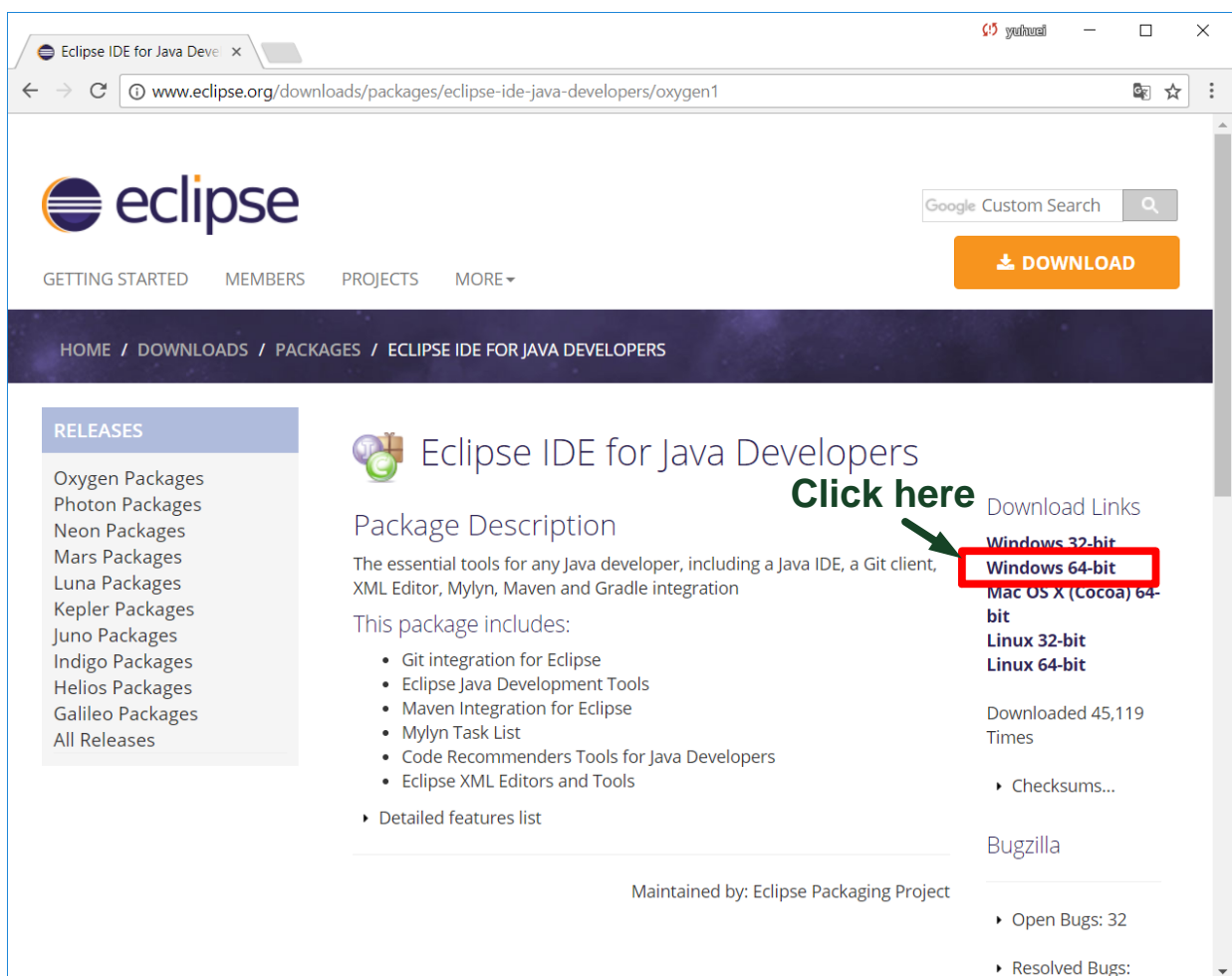


Fig. 4. Download eclipse IDE for Java developers



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3. Third, to unzip and run eclipse. After download, you can obtain “eclipse-java-oxygen-1-win32-x86_64.zip”. Please unzip it and you can get some directories and files, and then please double click the image of “eclipse” to run the eclipse program as shown in Fig. 5. And then, please select your workspace of eclipse for running REHUNT (Fig. 6), and you can get the eclipse welcome page (Fig. 7). When you see the eclipse welcome page, you have succeeded running eclipse. Finally, close the eclipse welcome page.

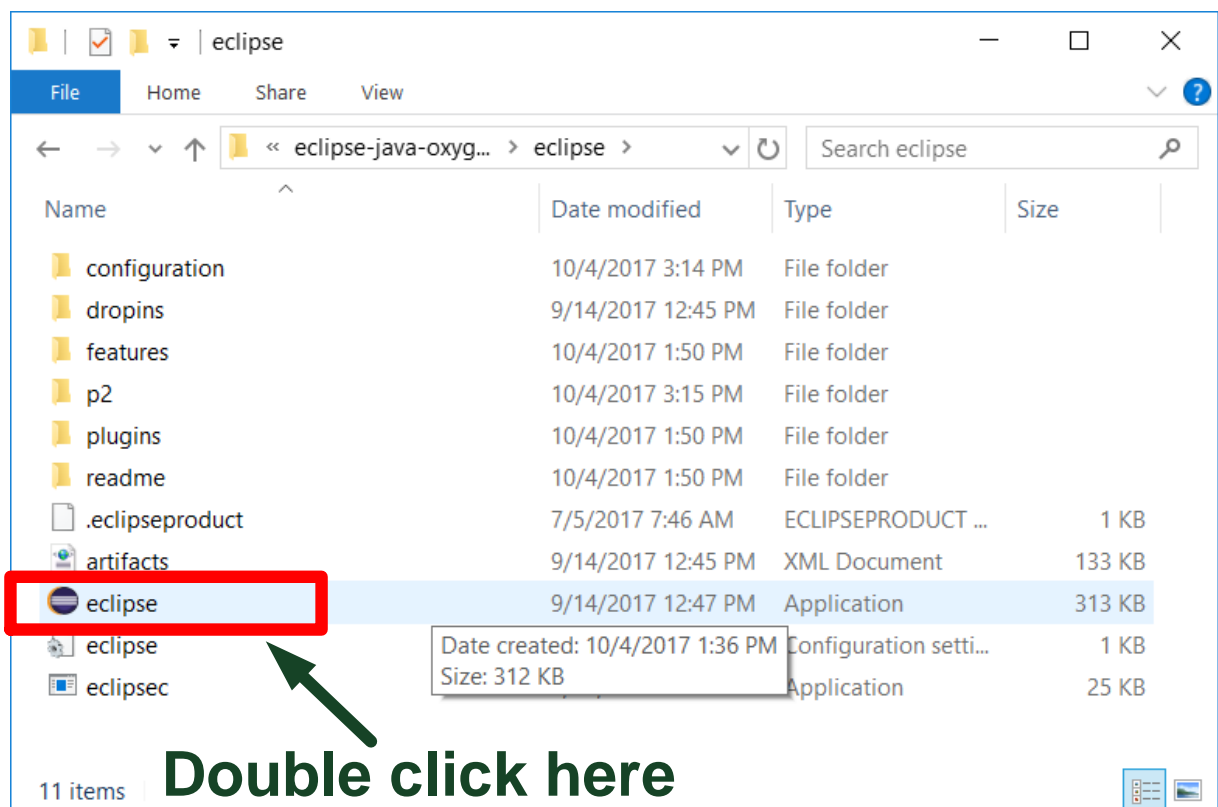


Fig. 5. The directories and files of eclipse



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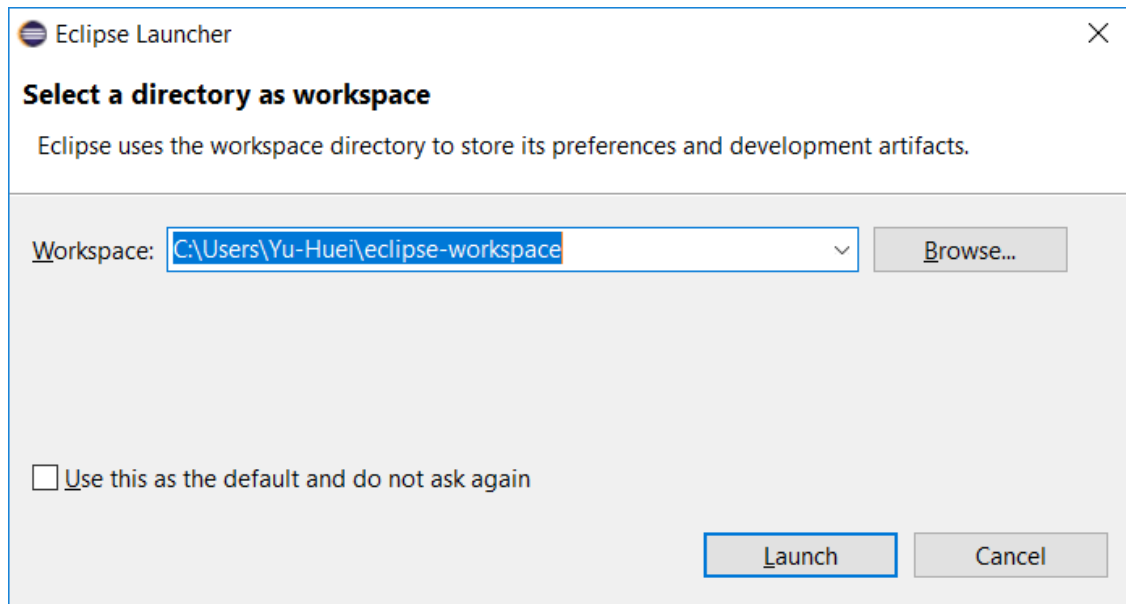


Fig. 6. Select your workspace of eclipse for running REHUNT

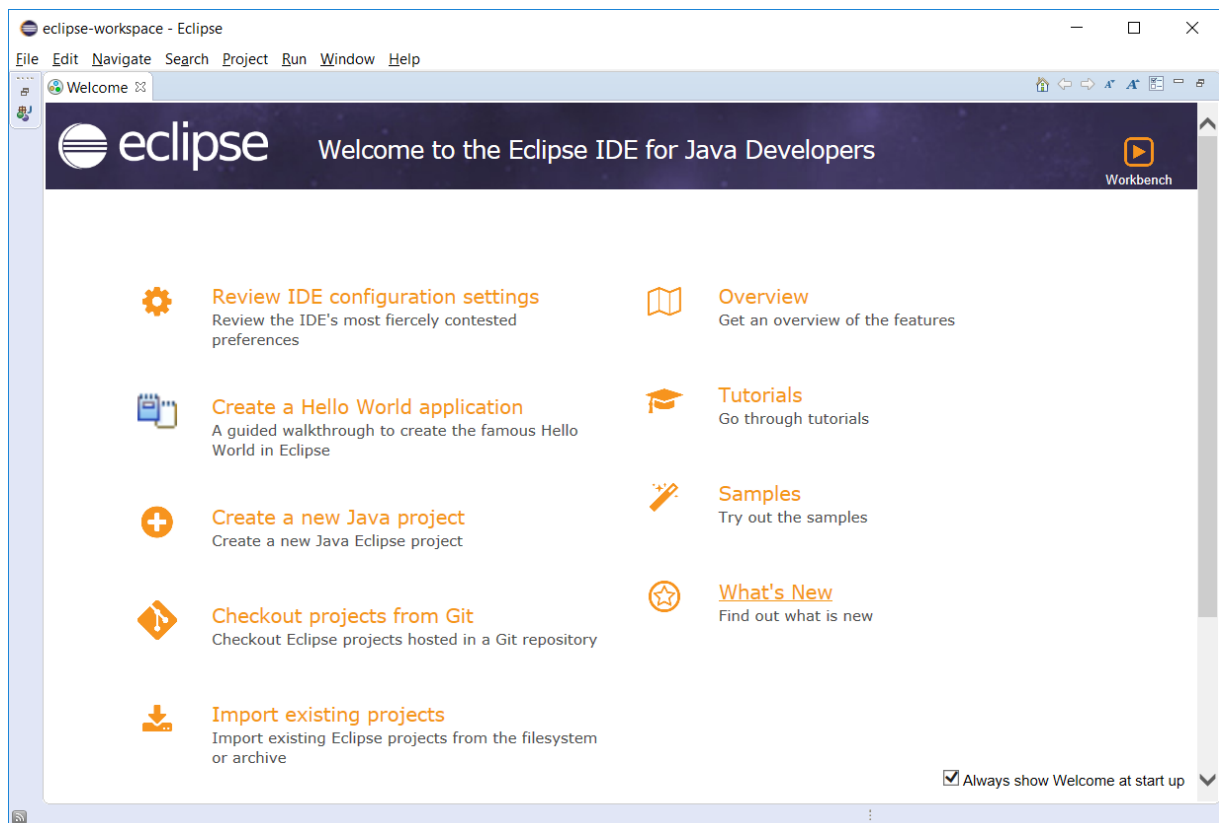


Fig. 7. The eclipse welcome page



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- Fourth, to create a java project. From the eclipse functions of "File -> New -> Java Project" to create a new project. Please input your project name, for example, input "TestREHUNT" and click the "Finish" button (Fig. 8). Now, we can see the project "TestREHUNT" is created (Fig. 9) and click the right arrow of "TestREHUNT" to unfold the directory of "TestREHUNT". Finally, you can get the directories of "JRE System Library" and "src".

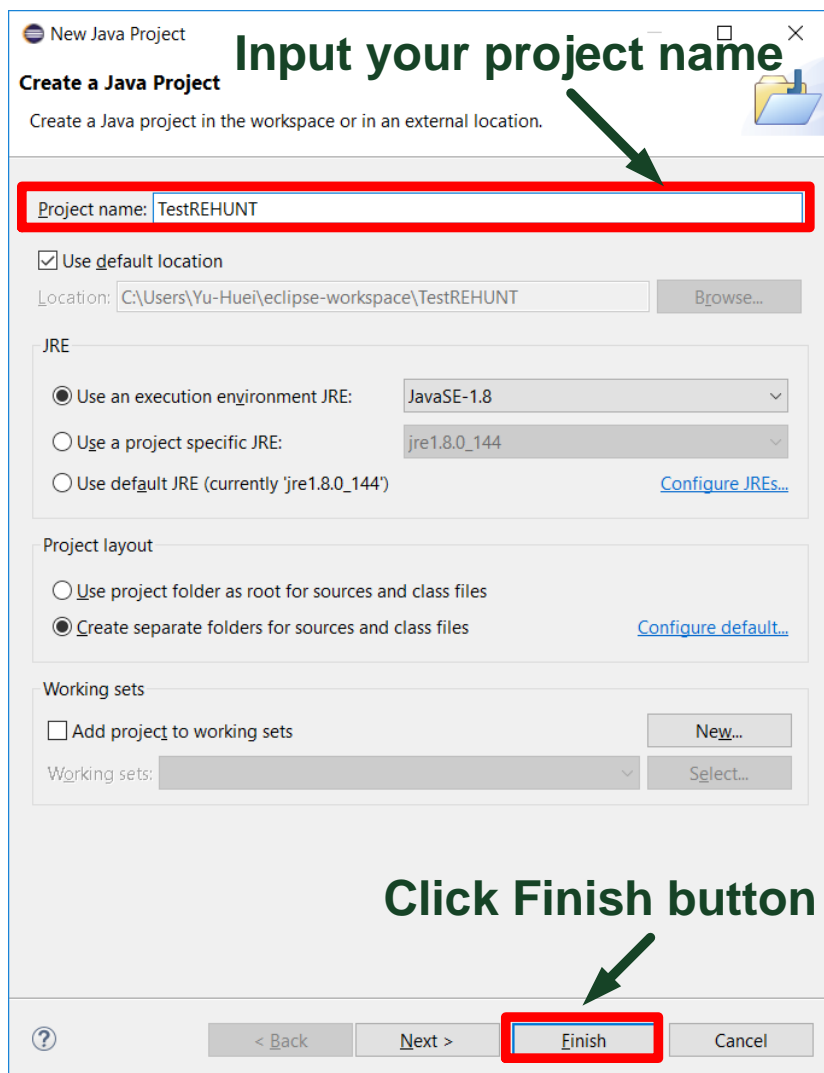


Fig. 8. Create your project

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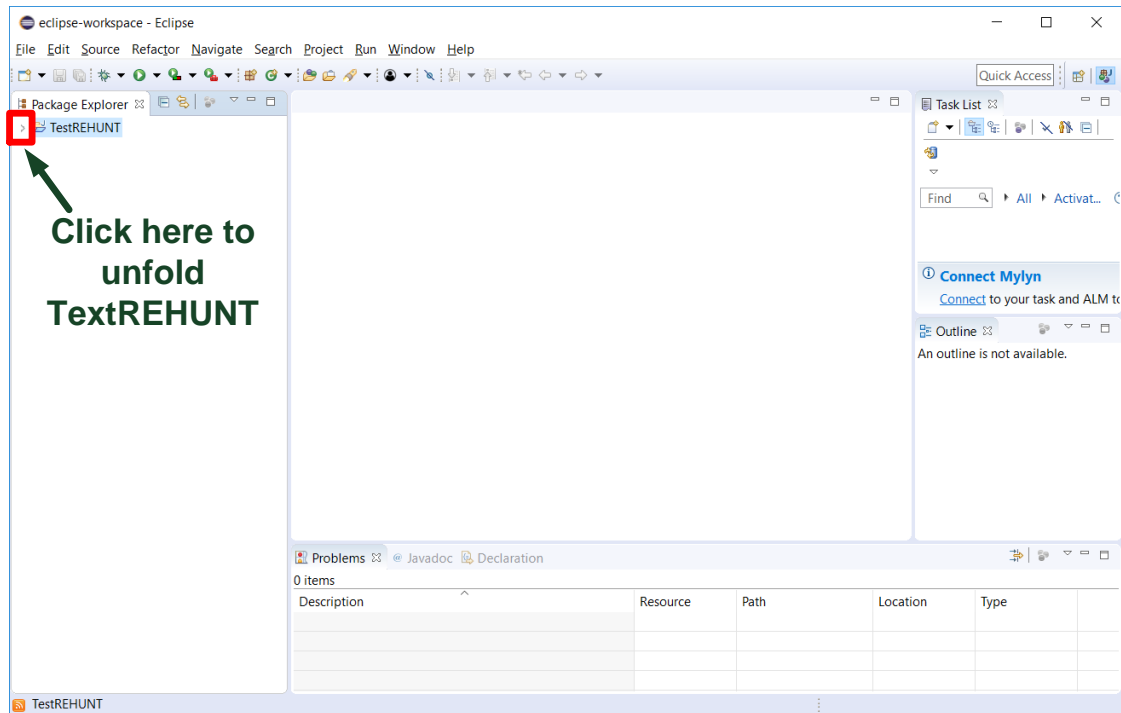


Fig. 9. The project “TestREHUNT” is created

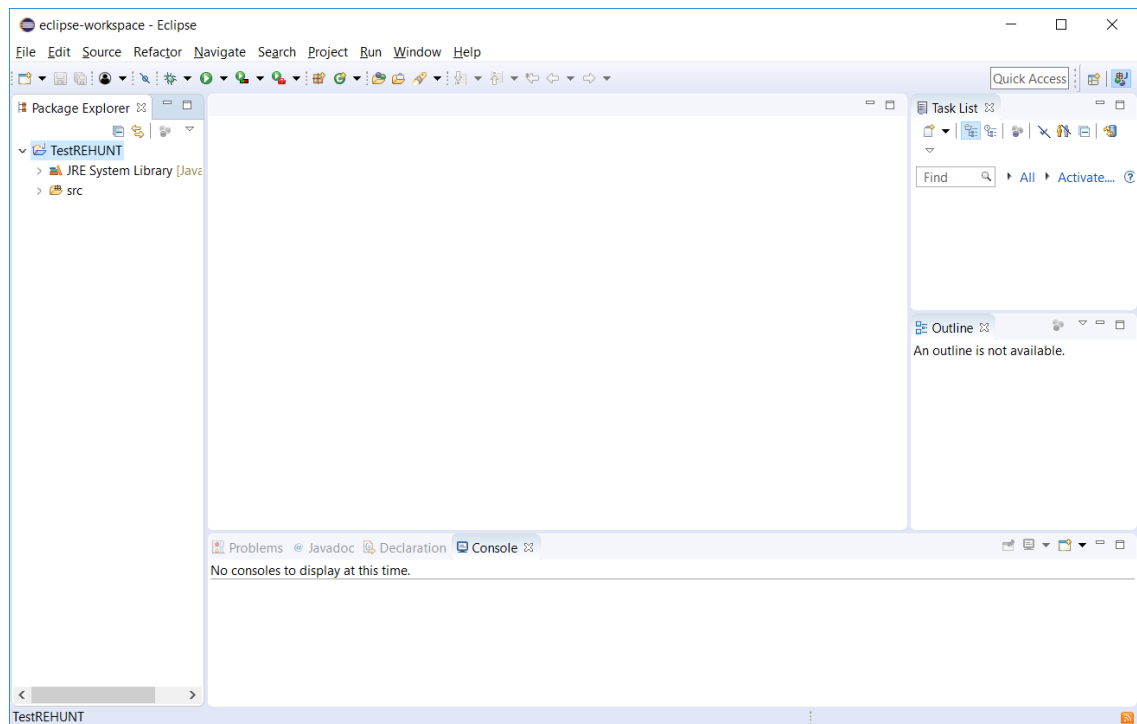


Fig. 10. Unfold the directory of “TestREHUNT”



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5. Fifth, to download REHUNT package. Please download REHUNT from https://sites.google.com/site/yhcheng1981/rehunt/REHUNT_v1.2.zip?attredirects=0&d=1 and unzip REHUNT package. And then, please find out the directory of “src” of REHUNT package and copy the subdirectories of “bio” and “REBASE” to the “src” of eclipse. The package of “bio.rehunt.algorithm”, “bio.rehunt.examples”, “bio.rehunt.rebase”, “bio.rehunt.rflp”, and “bio.rehunt.seq”, “bio.rehunt.thread”, and the database of “REBASE” will be shown in the Package Explorer (Fig. 11).

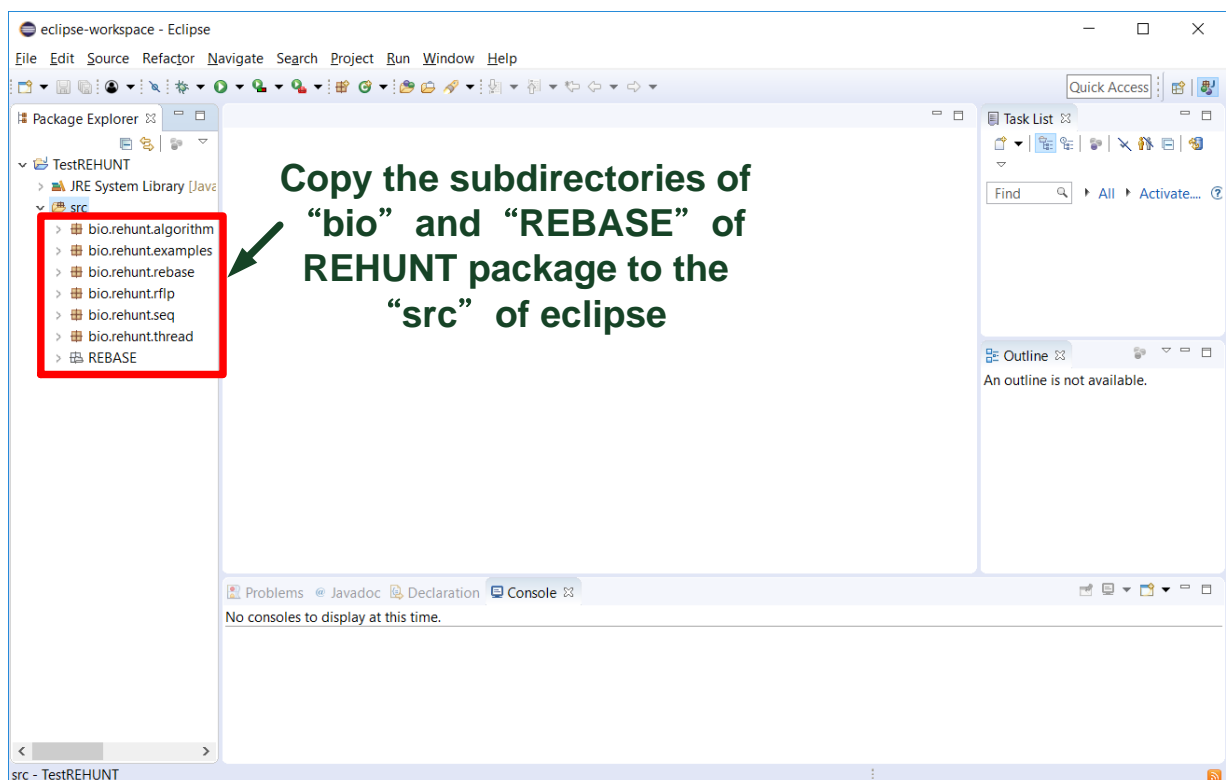



Fig. 11. Copy the subdirectories of “bio” and “REBASE” of REHUNT package to the “src” of eclipse



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6. Sixth, to run the Examples. Please click the right of “bio.rehunt.examples” to unfold the package of “bio.rehunt.examples”. And then, to double click “Example1.java” to open the codes. Finally, to click the image of  to run Example1 and the result will be shown in a moment. Fig. 12 shows the operations for running Example1. The other examples are run are the same as above operations.

3) Click here to run Example1

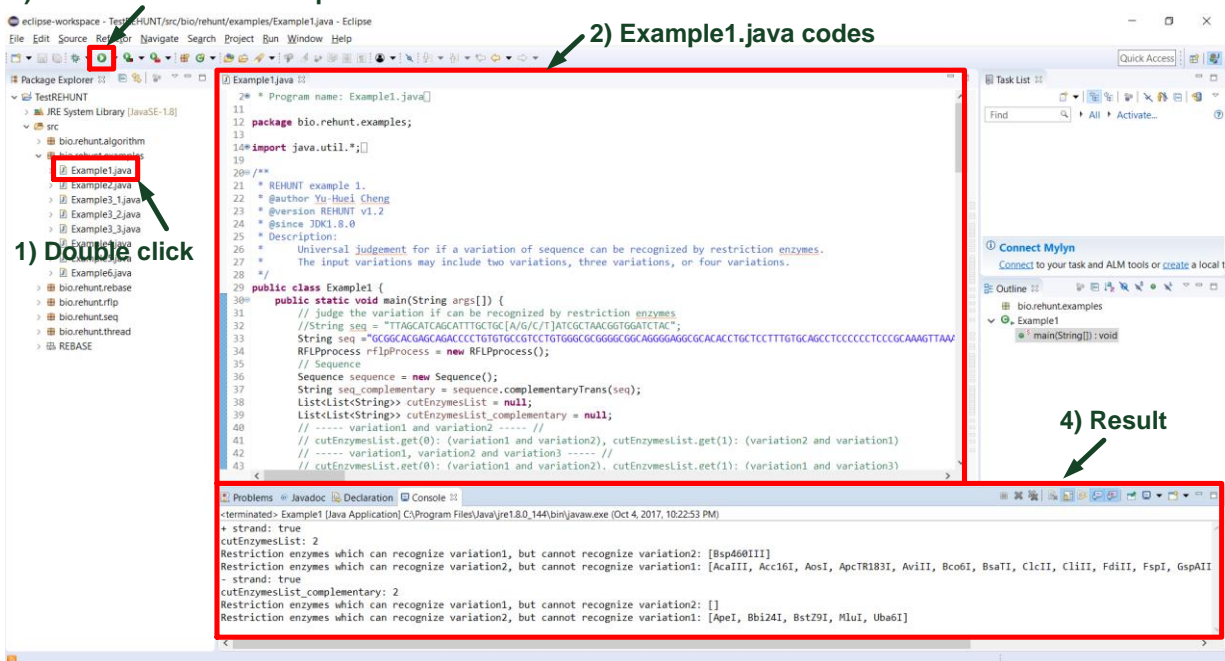



Fig. 12. Run the Example1. 1) Double click the “Example1.java”, 2) the codes of “Example1.java” is opened, 3) click the image of  to run Example1, and 4) the result is shown.