



Java 核心技术

第二章 Java环境搭建和程序初体验

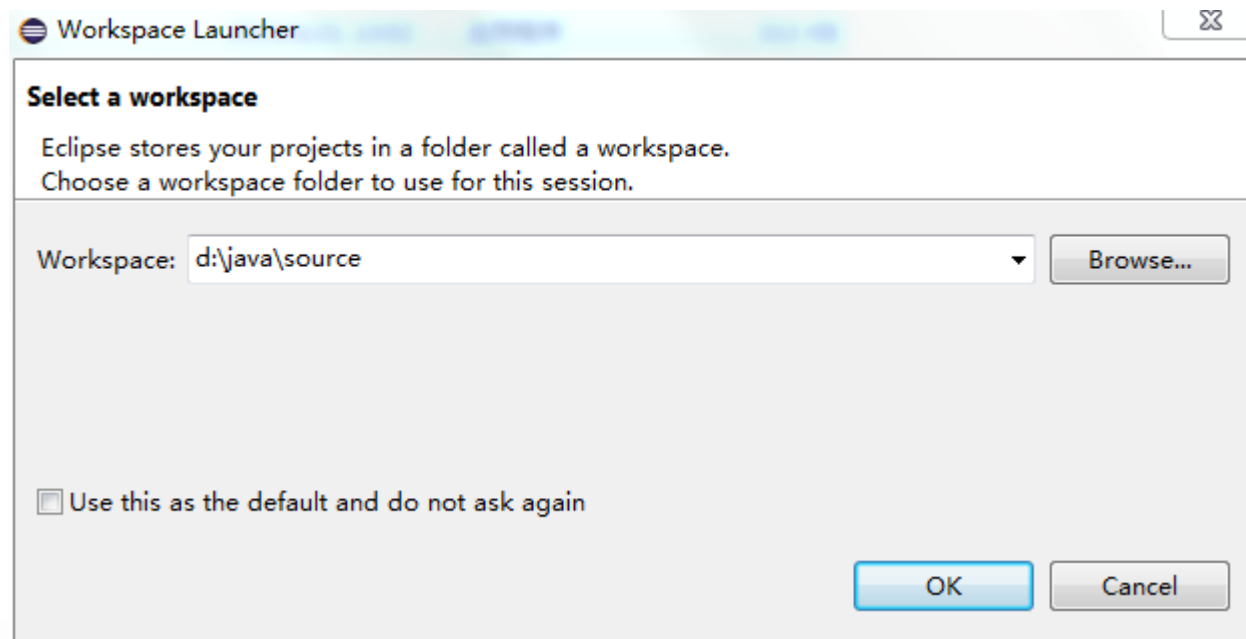
第三节 Eclipse配置和调试

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Eclipse(1)



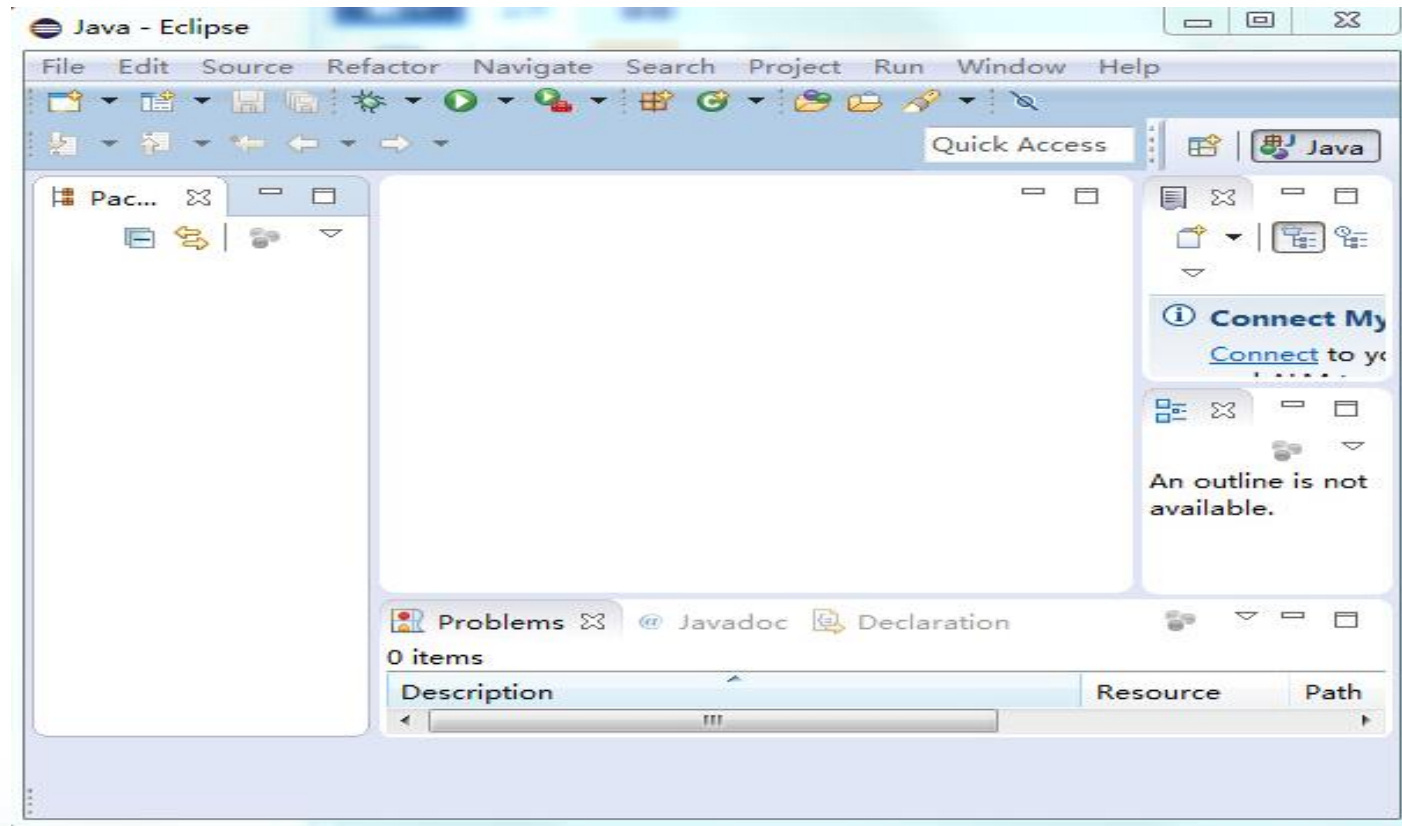
- 双击eclipse.exe, 首先进入工作空间配置
 - 如果输入不同的地址, 将进入不同的workspace



Eclipse(2)



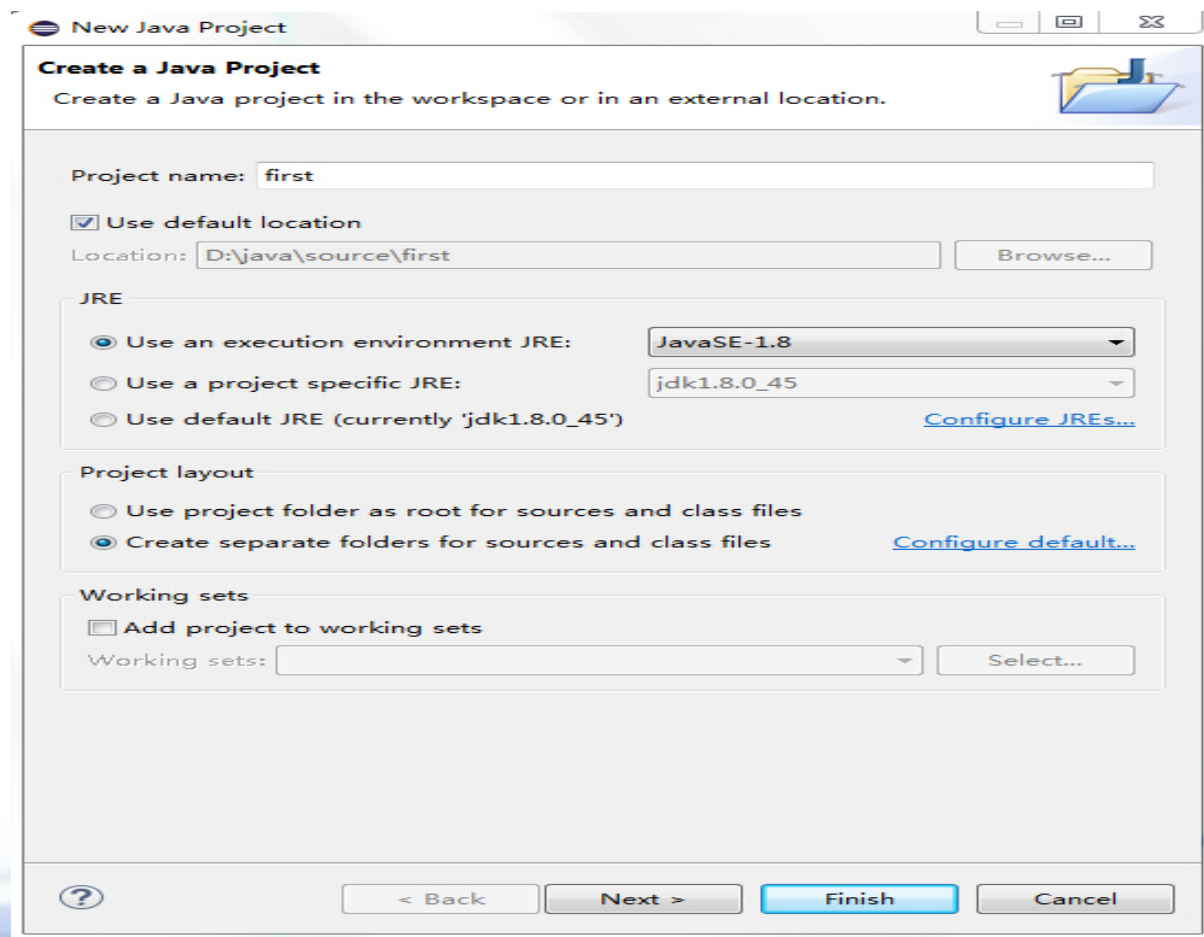
- 正常IDE界面



Eclipse(3)



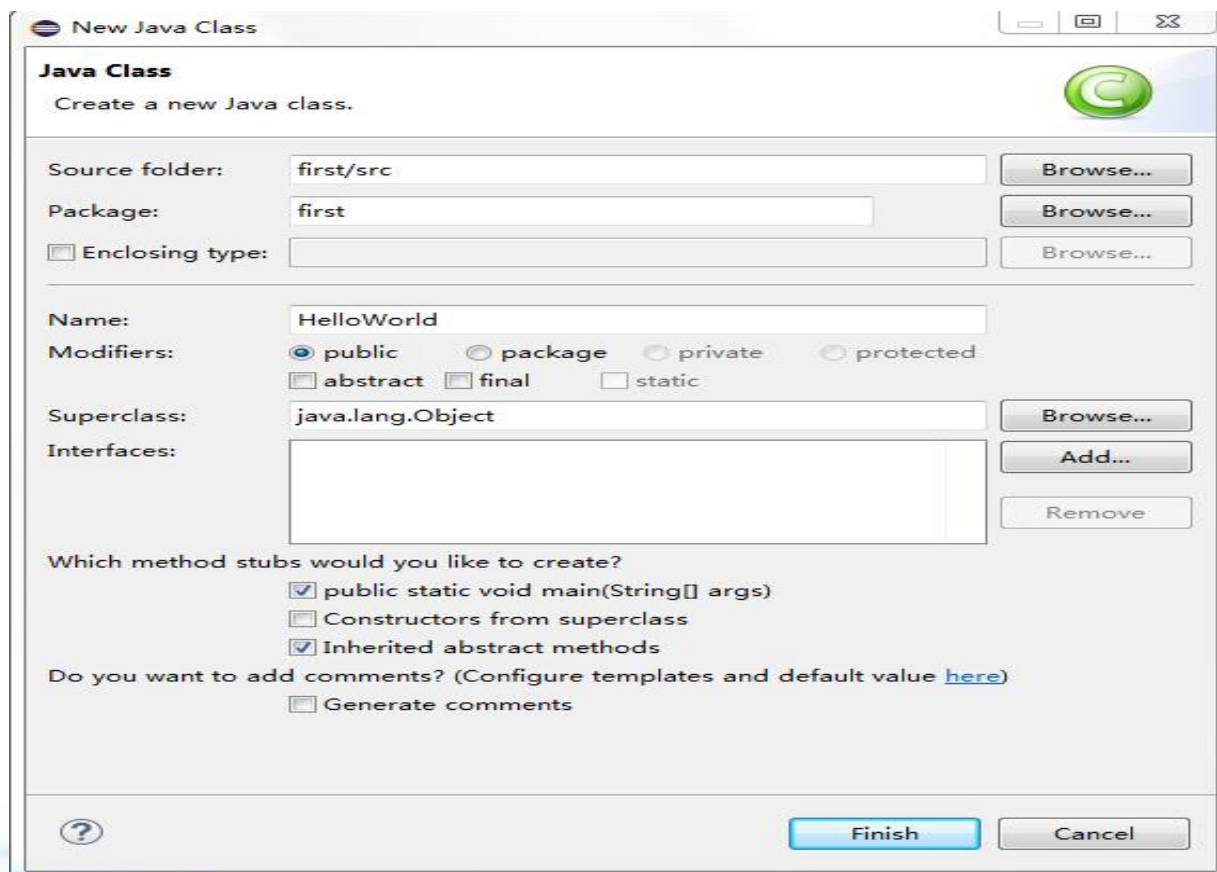
- 新建一个工程first



Eclipse(4)



- 右击first项目的src目录，新建一个class



Eclipse(5)



- 输入HelloWorld程序内容

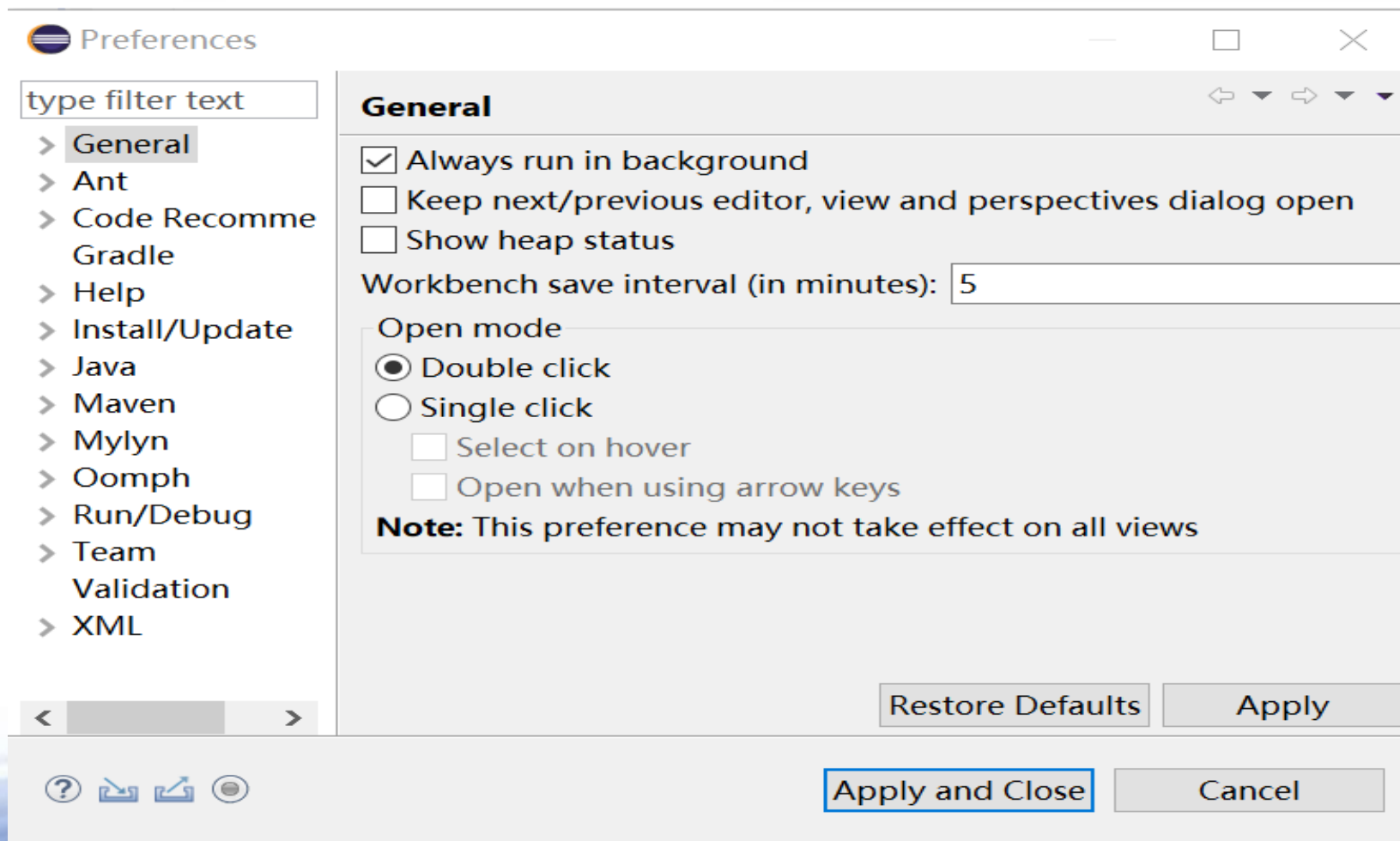
A screenshot of the Eclipse IDE interface. The title bar reads "Java - first/src/first/HelloWorld.java - Eclipse". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations and development. The Package Explorer on the left shows a project named "first" with a sub-package "src" containing a class "first" and a file "HelloWorld.java". The main editor window displays the code for "HelloWorld.java" with line numbers 1 through 11. The code is as follows:

```
1 package first;
2
3 public class HelloWorld {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         System.out.println("Hello world!");
8     }
9
10 }
11
```


Eclipse(6)



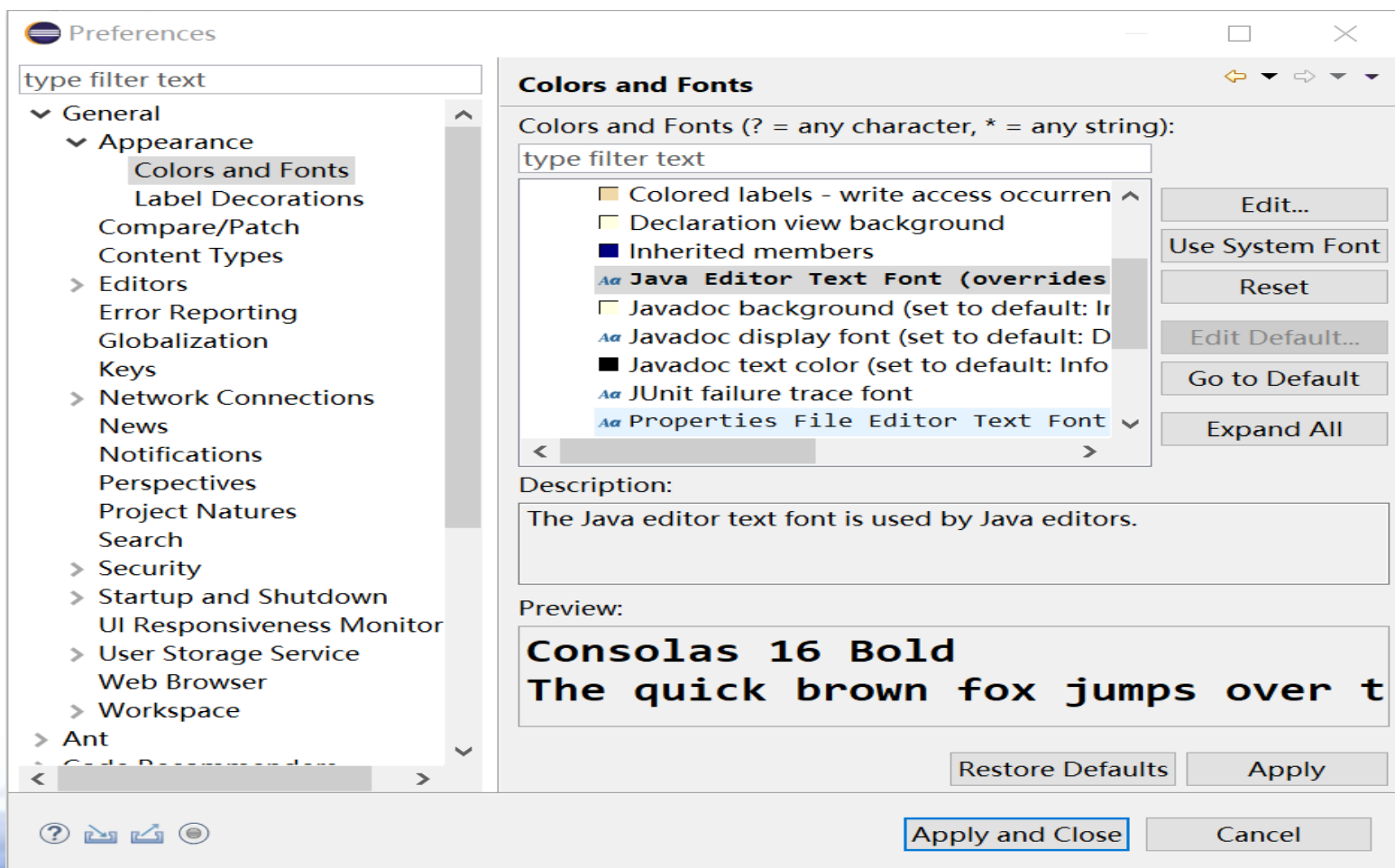
- Eclipse的主要配置界面Windows->Preference



Eclipse(7)



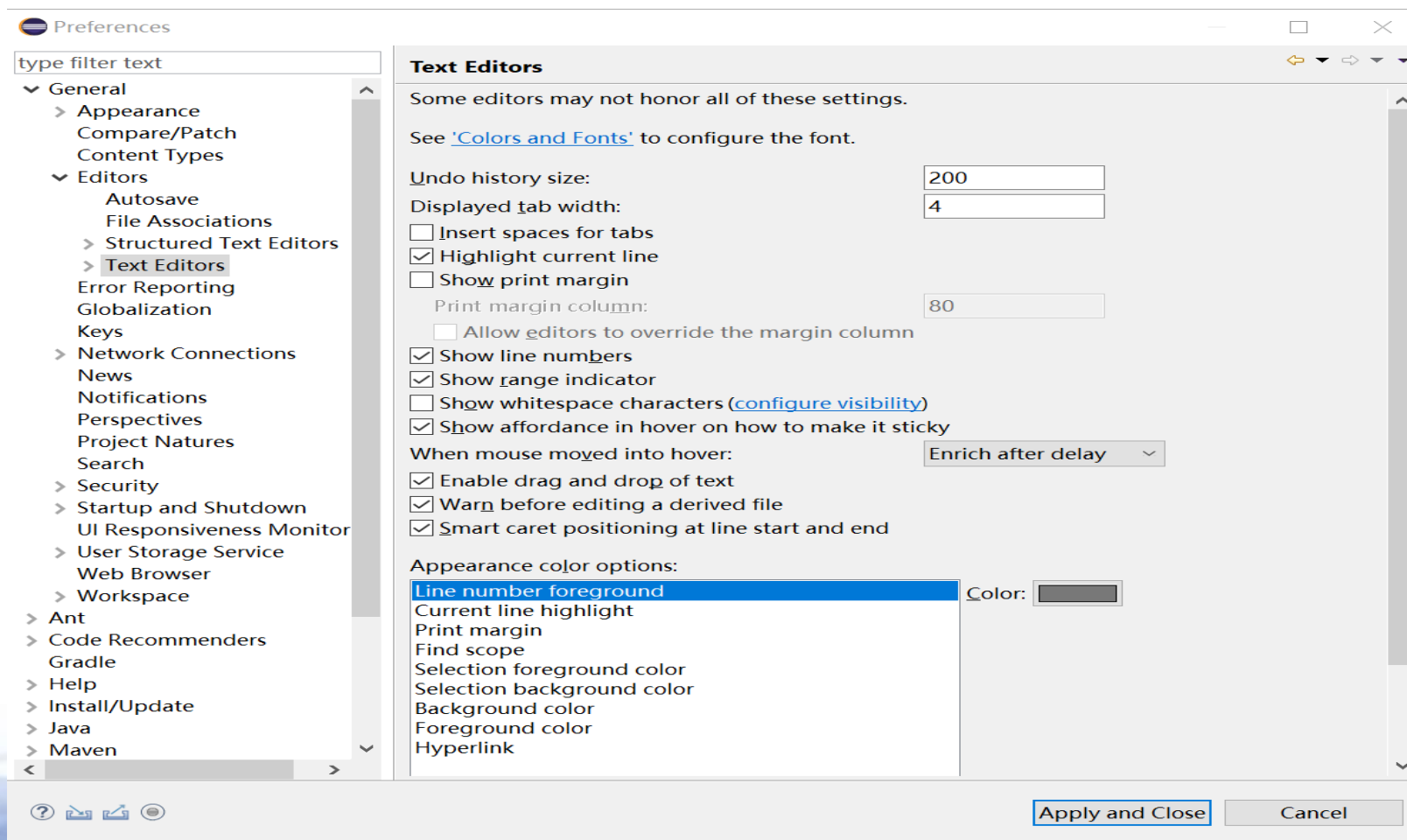
- 调整Eclipse编程界面的字体大小



Eclipse(8)



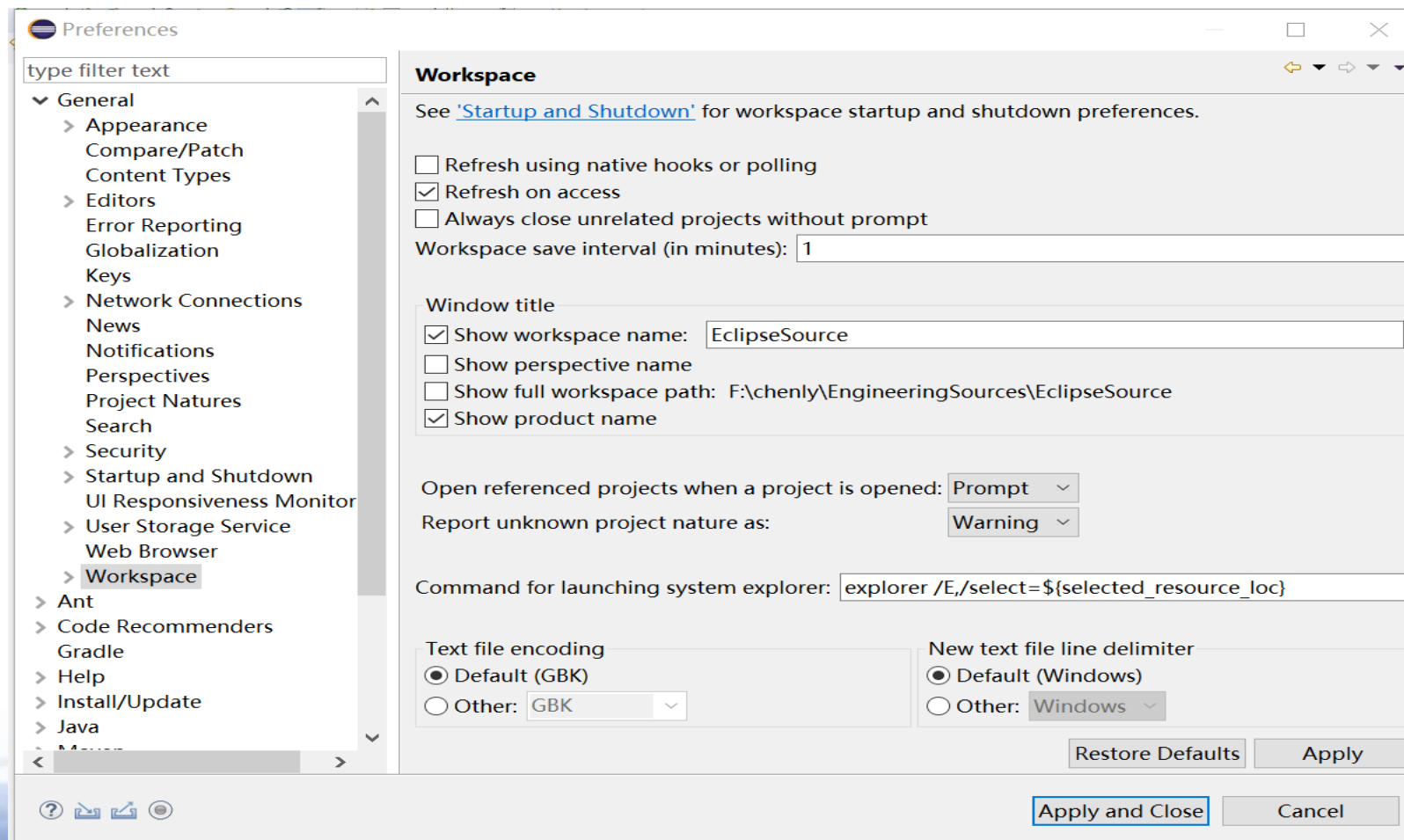
- 调整Eclipse以显示程序行号



Eclipse(9)



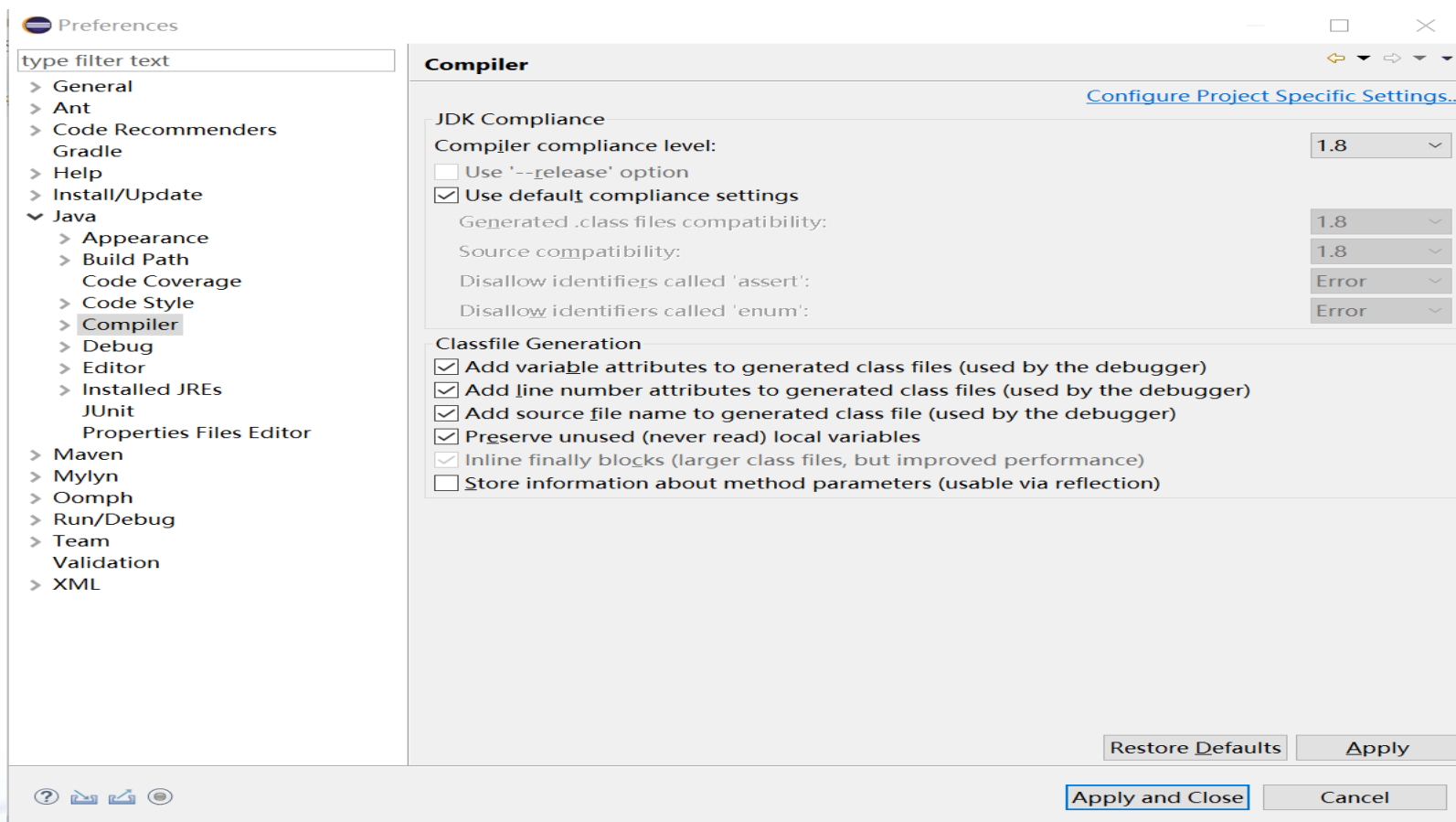
- 调整Eclipse自动保存时间和默认文本编码



Eclipse(10)



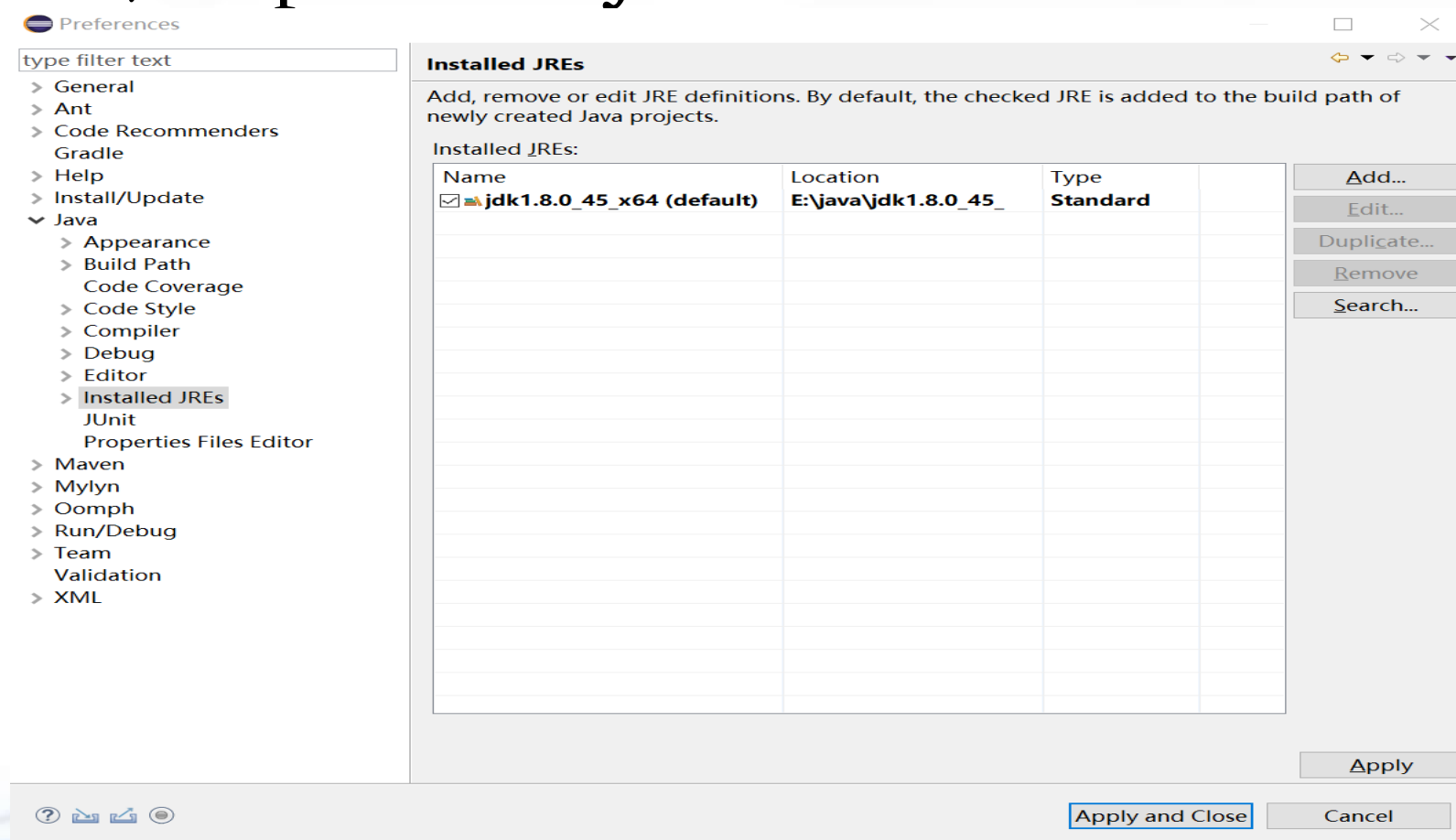
- 调整Eclipse默认编译级别



Eclipse(11)



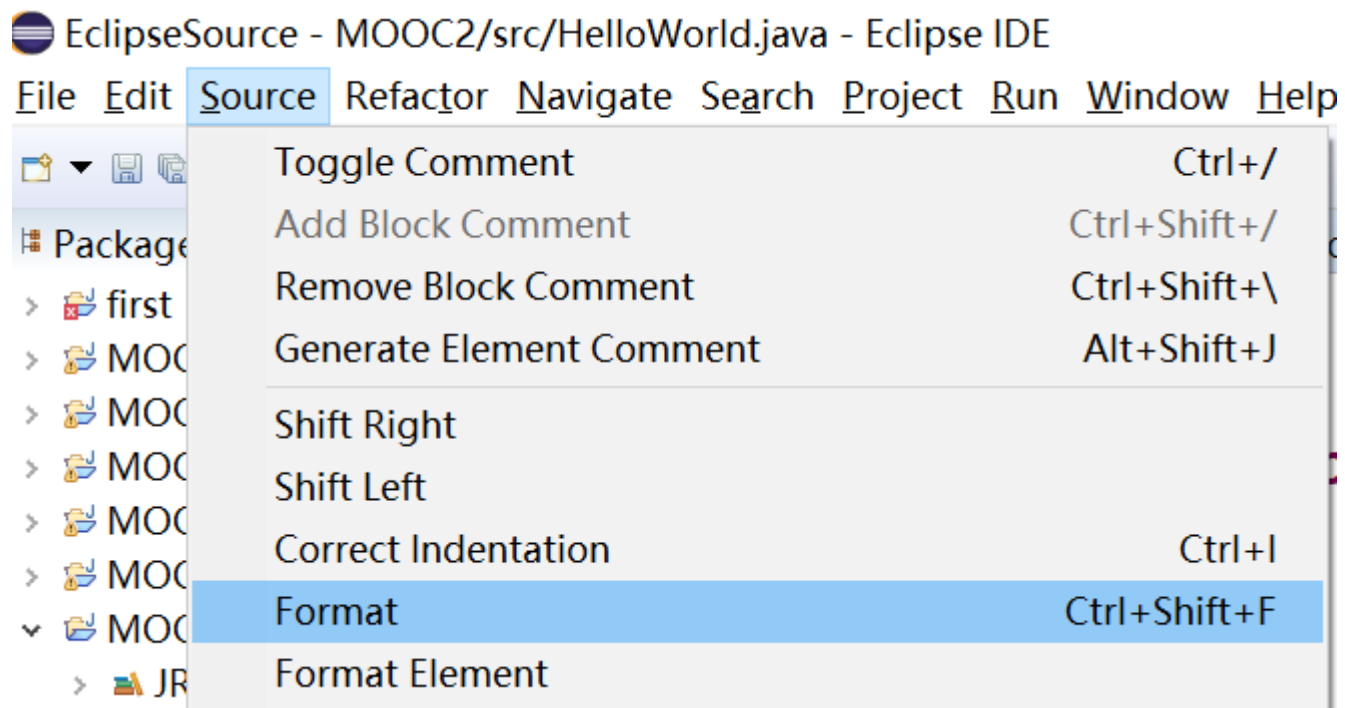
- 查看Eclipse配置的JDK信息



Eclipse(12)



- 格式化代码



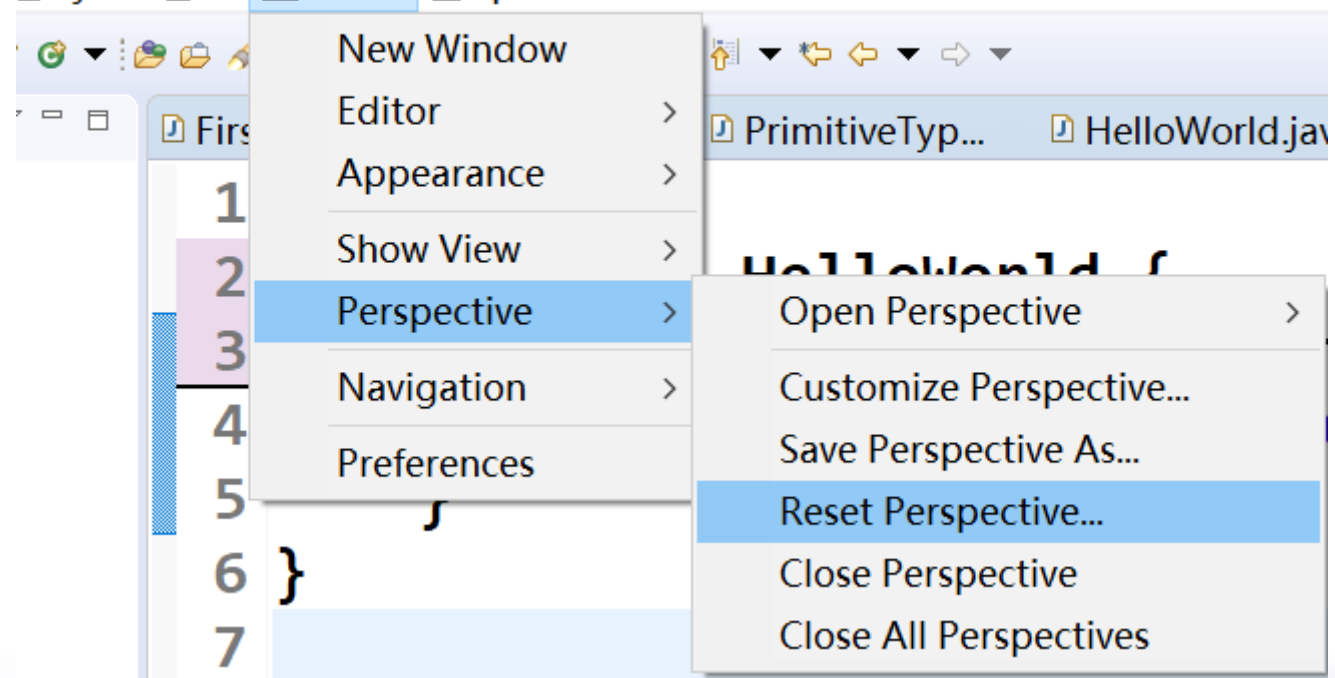
Eclipse(13)



- 重置窗口布局

- Eclipse IDE

Project Run Window Help



Eclipse(14)



- 双击第五行行首(蓝色区域), 可以设置断点

```
First.java  Second.java  PrimitiveTyp...  HelloWorld.java  StringTest.java  IfElse
1
2 public class HelloWorld {
3     public static void main(String[] args) {
4         System.out.println("Hello World!");
5         int a=1;
6         a = a+1;
7         a = a+1;
8         a = a+1;
9         a = a+1;
10        a = a+1;
11        a = a+1;
12        a = a+1;
13        a = a+1;
14    }
15 }
16
```

Eclipse(15)



- 设置断点后，右键程序，选择Debug运行进入调试

The screenshot shows the Eclipse IDE interface. On the left, the Project Explorer displays a project named 'MOOC2' with a sub-package 'src' containing a file 'HelloWorld.java'. A right-click context menu is open over 'HelloWorld.java'. The menu options include 'New', 'Open' (F3), 'Open With', 'Open Type Hierarchy' (F4), 'Show In' (Alt+Shift+W), 'Copy' (Ctrl+C), 'Copy Qualified Name', 'Paste' (Ctrl+V), 'Delete', 'Remove from Context' (Ctrl+Alt+Shift+Down), 'Build Path', 'Source' (Alt+Shift+S), 'Refactor' (Alt+Shift+T), 'Import...', 'Export...', 'References', 'Declarations', 'Refresh' (F5), 'Assign Working Sets...', 'Coverage As', 'Run As', and 'Debug As' (which is highlighted in blue). On the right, the Editor view shows the code of 'HelloWorld.java':

```
public HelloWorld {  
    static void main(String[] args) {  
        System.out.println("Hello World");  
        int a = 1;  
        while (a < 10) {  
            a = a + 1;  
            System.out.println(a);  
        }  
    }  
}
```

At the bottom, the Run and Debug console shows '1 Java Application' with the shortcut 'Alt+Shift+D, J'.

Eclipse(16)



- 单步调试程序，查看中间变量值

EclipseSource - MOOC2/src/HelloWorld.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

The screenshot shows the Eclipse IDE interface during a single-step debug session. The 'HelloWorld.java' file is open, and the execution has paused at line 7: `a = a+1;`. The 'Variables' view on the right displays the current state of variables.

Name	Value
no method return value	
args	String[0] (id=16)
a	2

Eclipse(17)



- 总结

- 界面设置和调整
- JDK管理和代码编译
- 程序单步调试
- 推荐： 极客学院的Eclipse的教程
 - <http://wiki.jikexueyuan.com/project/eclipse/>



谢谢!