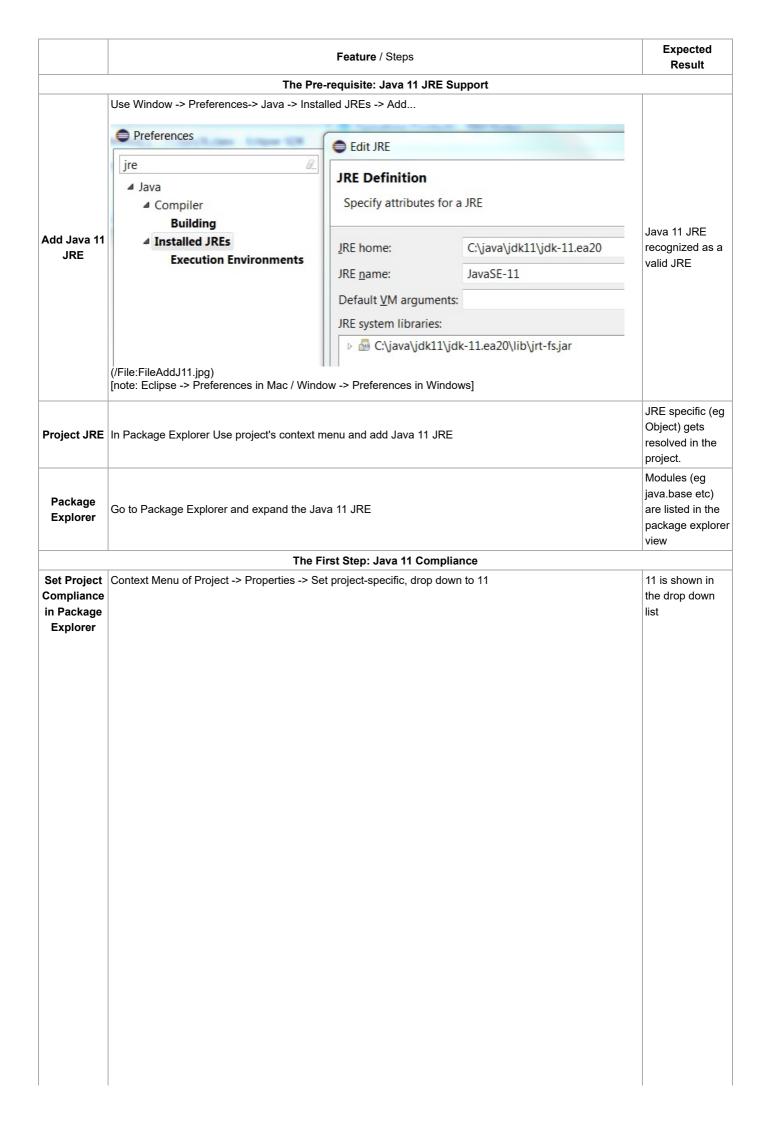
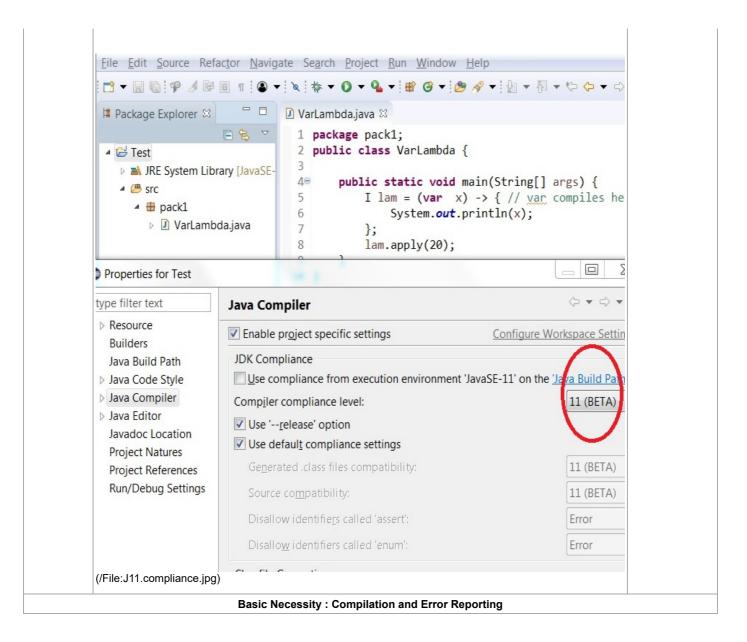
## Java11/Examples

This is an informal page listing examples of features that are implemented by the Java 11 Support. You are welcome to try out these examples. If you find bugs, please file a bug after checking for a duplicate entry here (https://bugs.eclipse.org/bugs/buglist.cgi?cmdtype=dorem&remaction=run&namedcmd=J11.Open&sharer\_id=152344).





```
Use the following code:
         package pack1;
public class VarLambda {
              lam.apply(20);
         5
         linterface I
              public void apply(Integer k);
         )
         <u>File Edit Source Refactor Navigate Search Project Run Window Help</u>

□ Package Explorer □

☑ VarLambda.java 
☒
                                    1 package pack1;
                          E 8
                                    2 public class VarLambda {
          3
           JRE System Library [JavaSE-
                                    49
                                          public static void main(String[] args) {
            5
 Positive
                                             I lam = (var x) \rightarrow { // var compiles here}
                                                                                     Code compiles

■ pack1

                                    6
                                                 System.out.println(x);
Compilation
               VarLambda.java
                                    7
                                             };
                                    8
                                             lam.apply(20);
                                    9
                                   10 }
                                   11
                                   12 interface I {
                                   13
                                          public void apply(Integer k);
                                   14 }
                                   15
                                  🔡 Problems 🛭 @ Javadoc 🖳 Declaration
                                  0 items
                                  Description
                                                                          Resource
         (/File:Var11.compile.jpg)
         package pack1;
         public class VarLambdaErr {
              Compiler
                                                                                     Compiler errors
Error Case
                    lam.apply(20);
                                                                                     are shown
    1
         }
         interface I {
    public void apply(Integer k, Integer z);
         package pack1;
public class VarLambdaErr {
              Compiler
                                                                                     Compiler errors
Error Case
                                                                                     shown
                    lam.apply(20, 200);
              }
              public void apply(Integer k, Integer z);
                                        Hover and Navigation
```

```
Use the following code:
          package pack1;
public class VarLambda {
                 lam.apply(20);
          interface I
                 public void apply(Integer k);
           Lambda.java - Eclipse SDK
            Navigate Search Project Run Window Help

☑ VarLambda.java 
☒

                     1 package pack1;
           엉
                     2 public class VarLambda {
                                                                                                      Hover and
 Hover
                     3
                                                                                                      Navigation
           JavaSE-
                                                         (String[] args) {
                     40
                             public static void
                     5
                                          (var
                                                                     compile
                     6
                                                java.lang.Integer
          ıva
                     7
                     8
                                  lam.apply
                                                                               (/File:Var11.hover.jpg)
                     9
                             }
                                              The Integer class wraps a value of
                    10 }
                                              field whose type is int.
                    11
                    12 interface I {
                                              In addition, this class provides severa
                             public void a other constants and methods useful
                    13
                    14 }
                                              Implementation note: The implemen
                    15
                                              numberOfTrailingZeros) are ba:
                                              2002).
                                                     Nestmates
               Description: Nest Based Access - A JVM Concept.
               A top level class and all inner classes form a single unit for access, a "nest".JVM
               specification added two attributes in the classfile NestHost and NestMember. The top
               most class will have the NestMember attribute listing all the members while each of
                                                                                                      In X.class
               the inner classes will have a NestHost attribute listing the top level class. Using
                                                                                                      (Disassembled)
               this, some of the synthetic bridge methods are elided transparent to the programmer.
                                                                                                      Nest Members:
               Note that this feature is relevant only for tools that process byte code and hence,
               in general, this feature would be "transparent" to a "normal" programmer. This feature
                                                                                                          #21 X$A,
               is applicable for byte code processors, for eg our Disassembler has been enhanced to
 Basic
                                                                                                         #24 X$A$B,
                show these attributes. For further info please read JEP 181.
 Nesting
                                                                                                          #27 X$Y
Principles
                                                                                                      In each of X$A,
                                                                                                      X$A$B, X$Y the
          public class X {
                                                                                                      attribute: Nest
             private class A {
             class B {}
                                                                                                      Host: #22 X
          }
            private class Y extends A {
```

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