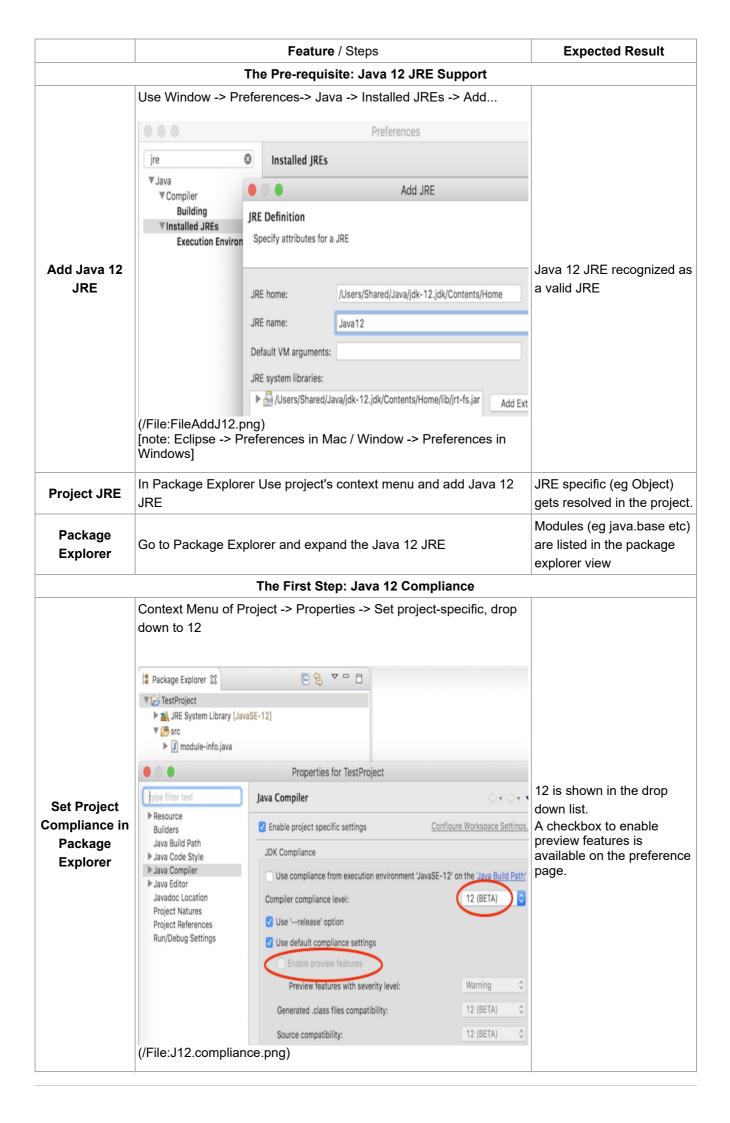
Java12/Examples

This is an informal page listing examples of features that are implemented by the Java 12 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&list_id=18507270&namedcmd=J12.Open&remaction=run&sharer_id=152344)

NOTE:

- Switch expression, Enhanced switch statement and Multi-constant case labels are Preview features in Java
 12. They are not enabled by default and can by enabled using --enable-preview.
- In Eclipse, --enable-preview can be enabled from the Preferences. It is implicitly added while launching a java program if the feature has been enabled for the project/workspace.



```
Basic Necessity: Compilation and Error Reporting
                Use the following code:
                public class X {
    public void foo(int i) {
                       switch (i) \{
                              case 0, 1, 2: System.out.println("Hello");
                              default : System.out.println("World");
                   public static void main(String[] argv) {
                       new X().foo(2);
   Positive
Compilation 1
                                                                                  Code compiles (with a
                public class X {
   (Switch
                                                                                  preview warning) and while
                     public void foo(int i) {
Statement with
                                                                                  running prints both "Hello"
  multi-label
                          switch (i)
                                                                                  "World"
  case with
                              case (0, 1, 2) System.out.println("Hello");
    colon)
                              default : System.out.println("World");
                     public static void main(String[] argv) {
                          new X().foo(2);
                (/File:Switch-statement-multi.png)
                Use the following code:
                public class X {
                    @SuppressWarnings("preview")
                       public void foo(int i) {
                       switch (i) {
                              case 2 -> System.out.println("Hello");
                              default -> System.out.println("World");
                   public static void main(String[] argv) {
                       new X().foo(2);
   Positive
                                                                                  Code compiles (with a
                public class X {
Compilation 2
                                                                                  preview warning) and while
                     @SuppressWarnings("preview")
   (Switch
                                                                                  running prints only "Hello"
                     public void foo(int i) {
Statement with
                                                                                  (because a break is implicit
  case with
                                                                                  after every case with an
                          switch (i) {
    arrow)
                                                                                  arrow.
                               case 2(-> System.out.println("Hello");
                               default(->) System.out.println("World");
                     public static void main(String[] argv) {
                          new X().foo(2);
                (/File:Switch-statement-arrow.png)
```

```
Use the following code:
                  public class Test {
                           enum Day {
     MON, TUE, WED, THUR, FRI, SAT, SUN
                           };
                           @SuppressWarnings("preview")
public String getDay_1 (Day today) {
        String day = switch(today) {
            case MON, TUE, WED, THUR, FRI -> "Weekday";
            case SAT, SUN -> "Weekend";
                                     return day;
                           }
                   public class Test {
  Positive
Compilation
                         enum Day {
                                                                                                     Code compiles
  (Switch
                              MON, TUE, WED, THUR, FRI, SAT, SUN
Expression)
                         };
                         @SuppressWarnings("preview")
                         public String getDay (Day today) {
                               String day = switch(today) {
                                    case MON, TUE, WED, THUR, FRI -> "Weekday";
                                    case SAT, SUN -> "Weekend";
                               };
                               return day;
                         }
                  (/File:Switch-exp.compile.png)
```

```
public class Test {
                                  enum Day {
      MON, TUE, WED, THUR, FRI, SAT, SUN
                                  };
                                  public String getDay_1 (Day today) {
    String day = switch(today) {
        case MON, TUE, WED, THUR, FRI: break "Weekday";
        case SAT, SUN: break "Weekend";
                                             return day;
                                  }
                                                                                                                        Compiler error is shown for
                        public class Test {
                                                                                                                        preview feature.
Compiler error
                             enum Day {
                                                                                                                        Quick fix is available to
                                 MON, TUE, WED, THUR, FRI, SAT, SUN
       Case
                                                                                                                        enable the preview feature
                                                                                                                        in the preferences.
                            public String getDay_1 (Day today) {
                                 String day = switch(today) {
                                   case MON, TUE, WED, THUR, FRI -> "Weekday";
                                  🔙 Switch Expressions is a preview feature and disabled by default. Use --enable-preview to enable
                                  2 quick fixes available:
                                   Enable preview features on project properties
                        }
                                   Open project compiler properties
                                                                                                        Press 'F2' for focus
                       (/File:Enable-preview.error.png)
```

```
public class Test {
                               enum Day {
         MON, TUE, WED, THUR, FRI, SAT, SUN
                               };
                               public String getDay_1 (Day today) {
    String day = switch(today) {
        case MON, TUE, WED, THUR, FRI: break "Weekday";
        case SAT, SUN: break "Weekend";
                                         return day;
                               }
                     public class Test {
                          enum Day {
                               MON, TUE, WED, THUR, FRI, SAT, SUN
   Compiler
                                                                                                               Compiler warning is shown
Warning Case
                                                                                                               for preview feature
                          public String getDay_1 (Day today) {
                               String day = switch(today) {
                               case MON, TUE, WED, THUR, FRI: break "Weekday";
                      case SAT, SUN: break "Weekend";
                      😘 You are using a preview language feature that may or may not be supported in a future release
                       3 quick fixes available:
                       @ Add @SuppressWarnings 'preview' to 'day'
                       @ Add @SuppressWarnings 'preview' to 'getDay_1()'
                       Configure problem severity
                                                                                              Press 'F2' for focus
                     (/File:Switch.preview.warning.compile.png)
```

```
public class Test {
                       enum Day {
          MON, TUE, WED, THUR, FRI, SAT, SUN
                        };
                        @SuppressWarnings("preview")
                        public String getDay_1 (Day today) {
                               String day = switch(today) {
    case MON : break "Weekday";
                                      case SAT, SUN : break "Weekend";
                               return day;
                        }
                       public class Test {
                   3
                   4
                   5⊖
                            enum Day {
Compiler Error
                                                                                   Compiler error is shown
                   6
                                 MON, TUE, WED, THUR, FRI, SAT, SUN
    Case
                   7
                   8
                   90
                            @SuppressWarnings("preview")
                            public String getDay_1 (Day today) {
                  10
                       A Switch expression should cover all possible values
                ®11
                                       case MON : break "Weekday";
                  12
                                       case SAT, SUN : break "Weekend";
                  13
                  14
                                  };
                  15
                                  return day;
                  16
                            }
                  17
                (/File:Switch.cover-all-cases.error.png)
```

This page was last modified 23:23, 19 March 2019 by Manoj Palat (/index.php? title=User:Manpalat.in.ibm.com&action=edit&redlink=1). Based on work by Sarika Sinha (/index.php? title=User:Sarika.sinha.in.ibm.com&action=edit&redlink=1) and Lakshmi Shanmugam (/index.php? title=User:Lshanmug.in.ibm.com&action=edit&redlink=1).

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