

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-
default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
to edit this template
 */
package main;
import javax.swing.JOptionPane;
import java.util.Scanner;
/**
 *
 * @author
 * Nama : Wira Aji Nugraha
 * NIM : 32602000064
 */
public class programUtama extends javax.swing.JFrame {

    /**
     * Creates new form programUtama
     */
    public programUtama() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize
the form.
     * WARNING: Do NOT modify this code. The content of this method is
always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated
Code">
    //GEN-BEGIN: initComponents
    private void initComponents() {

        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Tugas 5");

        jButton1.setFont(new java.awt.Font("Verdana", 1, 12)); //
NOI18N
        jButton1.setText("Tombol Satu");
        jButton1.addActionListener(new java.awt.event.ActionListener()
{

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        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            JButton1ActionPerformed(evt);
        }
    });

    JButton2.setFont(new java.awt.Font("Verdana", 1, 12)); //
NOI18N
    JButton2.setText("Tombol Dua");
    JButton2.addActionListener(new java.awt.event.ActionListener()
{
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            JButton2ActionPerformed(evt);
        }
    });

    JButton3.setBackground(new java.awt.Color(102, 0, 102));
    JButton3.setFont(new java.awt.Font("Verdana", 1, 12)); //
NOI18N
    JButton3.setForeground(new java.awt.Color(255, 255, 255));
    JButton3.setText("Tombol Tiga");
    JButton3.addActionListener(new java.awt.event.ActionListener()
{
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            JButton3ActionPerformed(evt);
        }
    });

    JLabel1.setFont(new java.awt.Font("Segoe UI", 2, 12)); //
NOI18N

    JLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    JLabel1.setText("This application was made by Wira Aji Nugraha
(32602000064)");
    JLabel1.setCursor(new
java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 365,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(21, Short.MAX_VALUE))

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        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING, false)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton2))
        .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 281,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(68, 68, 68))
    );
    layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(30, 30, 30)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 58,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 58,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, Short.MAX_VALUE)
        .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 74,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel1,
javax.swing.GroupLayout.DEFAULT_SIZE, 74, Short.MAX_VALUE))
    );

    pack();
} // </editor-fold> // GEN-END: initComponents

private void jButton1ActionPerformed(java.awt.event.ActionEvent
evt) { // GEN-FIRST: event_jButton1ActionPerformed
    // TODO add your handling code here:
    JOptionPane.showMessageDialog(this, "Ini Contoh JOptionPane
Message");
} // GEN-LAST: event_jButton1ActionPerformed

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        private void jButton2ActionPerformed(java.awt.event.ActionEvent
evt) { //GEN-FIRST:event_jButton2ActionPerformed
            // TODO add your handling code here:
            int jawab = JOptionPane.showConfirmDialog(this, "Are You
sure?");

            switch(jawab){
                case JOptionPane.YES_OPTION:
                    JOptionPane.showMessageDialog(this, "You choose Yes");
                    break;
                case JOptionPane.NO_OPTION:
                    JOptionPane.showMessageDialog(this, "You choose No");
                    break;
                case JOptionPane.CANCEL_OPTION:
                    JOptionPane.showMessageDialog(this, "You choose
Cancel");
            }
        } //GEN-LAST:event_jButton2ActionPerformed

        private void jButton3ActionPerformed(java.awt.event.ActionEvent
evt) { //GEN-FIRST:event_jButton3ActionPerformed
            // TODO add your handling code here:
            int angka =
Integer.parseInt(JOptionPane.showInputDialog("Please input add
number"));

            if(angka%2==0)
                JOptionPane.showMessageDialog(null,"Maaf bilangan yang
Anda masukkan bukan bilangan ganjil.\nHarap masukkan bilangan ganjil
!");
            else
                JOptionPane.showMessageDialog(null,"Bilangan " + angka + "
adalah bilangan ganjil");
        } //GEN-LAST:event_jButton3ActionPerformed

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel
setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay
with the default look and feel.
    * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.ht
ml
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {

```

```

javax.swing.UIManager.setLookAndFeel(info.getClassName());
        break;
    }
}
} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(programUtama.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(programUtama.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(programUtama.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(programUtama.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
    }
//</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new programUtama().setVisible(true);
        }
    });
}

// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JLabel jLabel1;
// End of variables declaration//GEN-END:variables
}

```

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```
<Form version="1.3" maxVersion="1.9" type="org.netbeans.modules.form.forminfo.JFrameFormInfo">
```

```
  <Properties>
```

```
    <Property name="defaultCloseOperation" type="int" value="3"/>
```

```
    <Property name="title" type="java.lang.String" value="Tugas 5"/>
```

```
  </Properties>
```

```
  <SyntheticProperties>
```

```
    <SyntheticProperty name="formSizePolicy" type="int" value="1"/>
```

```
    <SyntheticProperty name="generateCenter" type="boolean" value="false"/>
```

```
  </SyntheticProperties>
```

```
  <AuxValues>
```

```
    <AuxValue name="FormSettings_autoResourcing" type="java.lang.Integer" value="0"/>
```

```
    <AuxValue name="FormSettings_autoSetComponentName" type="java.lang.Boolean" value="false"/>
```

```
    <AuxValue name="FormSettings_generateFQN" type="java.lang.Boolean" value="true"/>
```

```
    <AuxValue name="FormSettings_generateMnemonicsCode" type="java.lang.Boolean" value="false"/>
```

```
    <AuxValue name="FormSettings_i18nAutoMode" type="java.lang.Boolean" value="false"/>
```

```
    <AuxValue name="FormSettings_layoutCodeTarget" type="java.lang.Integer" value="1"/>
```

```
    <AuxValue name="FormSettings_listenerGenerationStyle" type="java.lang.Integer" value="0"/>
```

```
    <AuxValue name="FormSettings_variablesLocal" type="java.lang.Boolean" value="false"/>
```

```
    <AuxValue name="FormSettings_variablesModifier" type="java.lang.Integer" value="2"/>
```

```
  </AuxValues>
```

```
<Layout>
```

```
  <DimensionLayout dim="0">
```

```
    <Group type="103" groupAlignment="0" attributes="0">
```

```
      <Group type="102" alignment="0" attributes="0">
```

```
        <EmptySpace max="-2" attributes="0"/>
```

```
        <Component id="jLabel1" min="-2" pref="365" max="-2" attributes="0"/>
```

```

    <EmptySpace pref="21" max="32767" attributes="0"/>
</Group>
<Group type="102" alignment="1" attributes="0">
    <EmptySpace max="32767" attributes="0"/>
    <Group type="103" groupAlignment="0" max="-2" attributes="0">
        <Group type="102" attributes="0">
            <Component id="jButton1" min="-2" max="-2" attributes="0"/>
            <EmptySpace max="32767" attributes="0"/>
            <Component id="jButton2" min="-2" max="-2" attributes="0"/>
        </Group>
        <Component id="jButton3" min="-2" pref="281" max="-2" attributes="0"/>
    </Group>
    <EmptySpace min="-2" pref="68" max="-2" attributes="0"/>
</Group>
</Group>
</DimensionLayout>
<DimensionLayout dim="1">
    <Group type="103" groupAlignment="0" attributes="0">
        <Group type="102" alignment="0" attributes="0">
            <EmptySpace min="-2" pref="30" max="-2" attributes="0"/>
            <Group type="103" groupAlignment="3" attributes="0">
                <Component id="jButton1" alignment="3" min="-2" pref="58" max="-2" attributes="0"/>
                <Component id="jButton2" alignment="3" min="-2" pref="58" max="-2" attributes="0"/>
            </Group>
            <EmptySpace type="separate" max="32767" attributes="0"/>
            <Component id="jButton3" min="-2" pref="74" max="-2" attributes="0"/>
            <EmptySpace max="-2" attributes="0"/>
            <Component id="jLabel1" pref="74" max="32767" attributes="0"/>
        </Group>
    </Group>

```

```
</Group>
</DimensionLayout>
</Layout>
<SubComponents>
  <Component class="javax.swing.JButton" name="jButton1">
    <Properties>
      <Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">
        <Font name="Verdana" size="12" style="1"/>
      </Property>
      <Property name="text" type="java.lang.String" value="Tombol Satu"/>
    </Properties>
    <Events>
      <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener"
parameters="java.awt.event.ActionEvent" handler="jButton1ActionPerformed"/>
    </Events>
  </Component>
  <Component class="javax.swing.JButton" name="jButton2">
    <Properties>
      <Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">
        <Font name="Verdana" size="12" style="1"/>
      </Property>
      <Property name="text" type="java.lang.String" value="Tombol Dua"/>
    </Properties>
    <Events>
      <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener"
parameters="java.awt.event.ActionEvent" handler="jButton2ActionPerformed"/>
    </Events>
  </Component>
  <Component class="javax.swing.JButton" name="jButton3">
```



```

<Properties>
  <Property name="background" type="java.awt.Color"
editor="org.netbeans.beaninfo.editors.ColorEditor">
    <Color blue="66" green="0" red="66" type="rgb"/>
  </Property>
  <Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">
    <Font name="Verdana" size="12" style="1"/>
  </Property>
  <Property name="foreground" type="java.awt.Color"
editor="org.netbeans.beaninfo.editors.ColorEditor">
    <Color blue="ff" green="ff" red="ff" type="rgb"/>
  </Property>
  <Property name="text" type="java.lang.String" value="Tombol Tiga"/>
</Properties>
<Events>
  <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener"
parameters="java.awt.event.ActionEvent" handler="jButton3ActionPerformed"/>
</Events>
</Component>
<Component class="javax.swing.JLabel" name="jLabel1">
  <Properties>
    <Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">
      <Font name="Segoe UI" size="12" style="2"/>
    </Property>
    <Property name="horizontalAlignment" type="int" value="0"/>
    <Property name="text" type="java.lang.String" value="This application was made by Wira Aji
Nugraha (32602000064)"/>
    <Property name="cursor" type="java.awt.Cursor"
editor="org.netbeans.modules.form.editors2.CursorEditor">
      <Color id="Default Cursor"/>

```

</Property>

</Properties>

</Component>

</SubComponents>

</Form>

compile.on.save=true

do.depend=false

do.jar=true

do.jlink=false

javac.debug=true

javadoc.preview=true

jlink.strip=false

user.properties.file=C:\\Users\\WAN\\AppData\\Roaming\\NetBeans\\12.6\\build.properties

```
<?xml version="1.0" encoding="UTF-8"?>
<project-private xmlns="http://www.netbeans.org/ns/project-private/1">
  <editor-bookmarks xmlns="http://www.netbeans.org/ns/editor-
bookmarks/2" lastBookmarkId="0"/>
  <open-files xmlns="http://www.netbeans.org/ns/projectui-open-
files/2">
    <group/>
  </open-files>
</project-private>
```

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<!--
*** GENERATED FROM project.xml - DO NOT EDIT ***
***          EDIT ../build.xml INSTEAD          ***
```

For the purpose of easier reading the script is divided into following sections:

- initialization
- compilation
- jar
- execution
- debugging
- javadoc
- test compilation
- test execution
- test debugging
- applet
- cleanup

```
-->
<project xmlns:if="ant:if" xmlns:j2seproject1="http://www.netbeans.org/ns/j2se-project/1" xmlns:j2seproject3="http://www.netbeans.org/ns/j2se-project/3" xmlns:jaxrpc="http://www.netbeans.org/ns/j2se-project/jax-rpc" xmlns:unless="ant:unless" basedir=".." default="default" name="tugas5-impl">
<fail message="Please build using Ant 1.8.0 or higher.">
<condition>
<not>
<antversion atleast="1.8.0"/>
</not>
</condition>
</fail>
<target depends="test,jar,javadoc" description="Build and test whole project." name="default"/>
<!--
=====
INITIALIZATION SECTION
=====
-->
<target name="-pre-init">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="-pre-init" name="-init-private">
<property file="nbproject/private/config.properties"/>
<property file="nbproject/private/configs/${config}.properties"/>
<property file="nbproject/private/private.properties"/>
</target>
<target depends="-pre-init,-init-private" name="-init-user">
<property file="${user.properties.file}"/>
<!-- The two properties below are usually overridden -->
<!-- by the active platform. Just a fallback. -->
<property name="default.javac.source" value="1.8"/>
```

```

<property name="default.javac.target" value="1.8"/>
</target>
<target depends="-pre-init,-init-private,-init-user" name="-init-project">
<property file="nbproject/configs/${config}.properties"/>
<property file="nbproject/project.properties"/>
</target>
<target name="-init-modules-supported">
<condition property="modules.supported.internal" value="true">
<not>
<matches pattern="1\.[0-8](\..*)?" string="${javac.source}"/>
</not>
</condition>
</target>
<target depends="-init-modules-supported" if="modules.supported.internal" name="-init-macrodef-modulename">
<macrodef name="module" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute name="property"/>
<attribute name="sourcepath"/>
<sequential>
<loadresource property="@{property}" quiet="true">
<javaresource classpath="@{sourcepath}" name="module-info.java" parentFirst="false"/>
<filterchain>
<stripjavacomments/>
<linecontainsregexp>
<regexp pattern="module .* \{"/>
</linecontainsregexp>
<tokenfilter>
<linetokenizer/>
<replaceregex flags="s" pattern="(\s*module\s+)(\S*)(\s*\{.*)" replace="\2"/>
</tokenfilter>
<striplinebreaks/>
</filterchain>
</loadresource>
</sequential>
</macrodef>
</target>
<target depends="-init-modules-supported,-init-macrodef-modulename" if="modules.supported.internal" name="-init-source-module-properties">
<fail message="Java 9 support requires Ant 1.10.0 or higher.">
<condition>
<not>
<antversion atleast="1.10.0"/>
</not>
</condition>
</fail>
<j2seproject3:module name="module.name" sourcepath="${src.dir}"/>
<condition property="named.module.internal">
<and>
<isset property="module.name"/>
<length length="0" string="${module.name}" when="greater"/>
</and>
</condition>
<condition property="unnamed.module.internal">
<not>
<isset property="named.module.internal"/>

```

```

</not>
</condition>
<property name="javac.modulepath" value=""/>
<property name="run.modulepath" value="${javac.modulepath}"/>
<property name="module.build.classes.dir" value="${build.classes.dir}"/>
<property name="debug.modulepath" value="${run.modulepath}"/>
<property name="javac.upgrademodulepath" value=""/>
<property name="run.upgrademodulepath" value="${javac.upgrademodulepath}"/>
<condition else="" property="javac.systemmodulepath.cmd.line.arg" value="--
system '${javac.systemmodulepath}'">
<and>
<isset property="javac.systemmodulepath"/>
<length length="0" string="${javac.systemmodulepath}" when="greater"/>
</and>
</condition>
<property name="dist.jlink.dir" value="${dist.dir}/jlink"/>
<property name="dist.jlink.output" value="${dist.jlink.dir}/${application.tit
le}"/>
<property name="module.name" value=""/>
</target>
<target depends="-pre-init,-init-private,-init-user,-init-project,-init-
macrodef-property,-init-modules-supported" name="-do-init">
<property name="platform.java" value="${java.home}/bin/java"/>
<available file="${manifest.file}" property="manifest.available"/>
<condition property="splashscreen.available">
<and>
<not>
<equals arg1="${application.splash}" arg2="" trim="true"/>
</not>
<available file="${application.splash}"/>
</and>
</condition>
<condition property="main.class.available">
<and>
<isset property="main.class"/>
<not>
<equals arg1="${main.class}" arg2="" trim="true"/>
</not>
</and>
</condition>
<condition property="profile.available">
<and>
<isset property="javac.profile"/>
<length length="0" string="${javac.profile}" when="greater"/>
<not>
<matches pattern="1\.[0-7](\..*)?" string="${javac.source}"/>
</not>
</and>
</condition>
<condition property="do.archive">
<or>
<not>
<istrue value="${jar.archive.disabled}"/>
</not>
<istrue value="${not.archive.disabled}"/>
</or>
</condition>

```

```
<condition property="do.archive+manifest.available">
<and>
<isset property="manifest.available"/>
<istrue value="${do.archive}"/>
</and>
</condition>
<condition property="do.archive+main.class.available">
<and>
<isset property="main.class.available"/>
<istrue value="${do.archive}"/>
</and>
</condition>
<condition property="do.archive+splashscreen.available">
<and>
<isset property="splashscreen.available"/>
<istrue value="${do.archive}"/>
</and>
</condition>
<condition property="do.archive+profile.available">
<and>
<isset property="profile.available"/>
<istrue value="${do.archive}"/>
</and>
</condition>
<condition property="have.tests">
<or>
<available file="${test.src.dir}"/>
</or>
</condition>
<condition property="have.sources">
<or>
<available file="${src.dir}"/>
</or>
</condition>
<condition property="netbeans.home+have.tests">
<and>
<isset property="netbeans.home"/>
<isset property="have.tests"/>
</and>
</condition>
<condition property="no.javadoc.preview">
<and>
<isset property="javadoc.preview"/>
<isfalse value="${javadoc.preview}"/>
</and>
</condition>
<property name="run.jvmargs" value=""/>
<property name="run.jvmargs.ide" value=""/>
<property name="javac.compilerargs" value=""/>
<property name="work.dir" value="${basedir}"/>
<condition property="no.deps">
<and>
<istrue value="${no.dependencies}"/>
</and>
</condition>
<property name="javac.debug" value="true"/>
<property name="javadoc.preview" value="true"/>
```



```

<property name="application.args" value=""/>
<property name="source.encoding" value="{file.encoding}"/>
<property name="runtime.encoding" value="{source.encoding}"/>
<property name="manifest.encoding" value="{source.encoding}"/>
<condition property="javadoc.encoding.used" value="{javadoc.encoding}">
<and>
<isset property="javadoc.encoding"/>
<not>
<equals arg1="{javadoc.encoding}" arg2=""/>
</not>
</and>
</condition>
<property name="javadoc.encoding.used" value="{source.encoding}"/>
<property name="includes" value="**"/>
<property name="excludes" value=""/>
<property name="do.depend" value="false"/>
<condition property="do.depend.true">
<istrue value="{do.depend}"/>
</condition>
<path id="endorsed.classpath.path" path="{endorsed.classpath}"/>
<condition else="" property="endorsed.classpath.cmd.line.arg" value="-
Xbootclasspath/p:'{toString:endorsed.classpath.path}'">
<and>
<isset property="endorsed.classpath"/>
<not>
<equals arg1="{endorsed.classpath}" arg2="" trim="true"/>
</not>
</and>
</condition>
<condition else="" property="javac.profile.cmd.line.arg" value="-profile
{javac.profile}">
<isset property="profile.available"/>
</condition>
<condition else="false" property="jdkBug6558476">
<and>
<matches pattern="1\.[56]" string="{java.specification.version}"/>
<not>
<os family="unix"/>
</not>
</and>
</condition>
<condition else="false" property="javac.fork">
<or>
<istrue value="{jdkBug6558476}"/>
<istrue value="{javac.external.vm}"/>
</or>
</condition>
<property name="jar.index" value="false"/>
<property name="jar.index.metainf" value="{jar.index}"/>
<property name="copylibs.rebase" value="true"/>
<available file="{meta.inf.dir}/persistence.xml" property="has.persistence.x
ml"/>
<condition property="junit.available">
<or>
<available classname="org.junit.Test" classpath="{run.test.classpath}"/>
<available classname="junit.framework.Test" classpath="{run.test.classpath}"
/>

```

```

</or>
</condition>
<condition property="testng.available">
<available classname="org.testng.annotations.Test" classpath="${run.test.classpath}"/>
</condition>
<condition property="junit+testng.available">
<and>
<istrue value="${junit.available}"/>
<istrue value="${testng.available}"/>
</and>
</condition>
<condition else="testng" property="testng.mode" value="mixed">
<istrue value="${junit+testng.available}"/>
</condition>
<condition else="" property="testng.debug.mode" value="-mixed">
<istrue value="${junit+testng.available}"/>
</condition>
<property name="java.failonerror" value="true"/>
</target>
<target name="-post-init">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="-pre-init,-init-private,-init-user,-init-project,-do-init" name="-init-check">
<fail unless="src.dir">Must set src.dir</fail>
<fail unless="test.src.dir">Must set test.src.dir</fail>
<fail unless="build.dir">Must set build.dir</fail>
<fail unless="dist.dir">Must set dist.dir</fail>
<fail unless="build.classes.dir">Must set build.classes.dir</fail>
<fail unless="dist.javadoc.dir">Must set dist.javadoc.dir</fail>
<fail unless="build.test.classes.dir">Must set build.test.classes.dir</fail>
<fail unless="build.test.results.dir">Must set build.test.results.dir</fail>
<fail unless="build.classes.excludes">Must set build.classes.excludes</fail>
<fail unless="dist.jar">Must set dist.jar</fail>
</target>
<target name="-init-macrodef-property">
<macrodef name="property" uri="http://www.netbeans.org/ns/j2se-project/1">
<attribute name="name"/>
<attribute name="value"/>
<sequential>
<property name="@{name}" value="${@{value}}"/>
</sequential>
</macrodef>
</target>
<target depends="-init-ap-cmdline-properties,-init-source-module-properties" if="modules.supported.internal" name="-init-macrodef-javac-with-module">
<macrodef name="javac" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${src.dir}" name="srcdir"/>
<attribute default="${build.classes.dir}" name="destdir"/>
<attribute default="${javac.classpath}" name="classpath"/>
<attribute default="${javac.modulepath}" name="modulepath"/>
<attribute default="${javac.upgrademodulepath}" name="upgrademodulepath"/>
<attribute default="${javac.processorpath}" name="processorpath"/>

```

```

<attribute default="${javac.processormodulepath}" name="processormodulepath"/
>
<attribute default="${build.generated.sources.dir}/ap-source-
output" name="apgeneratedsrcdir"/>
<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<attribute default="${javac.debug}" name="debug"/>
<attribute default="${empty.dir}" name="sourcepath" unless:set="named.module.
internal"/>
<attribute default="${src.dir}" if:set="named.module.internal" name="sourcepa
th"/>
<attribute default="${empty.dir}" name="gensrcdir"/>
<element name="customize" optional="true"/>
<sequential>
<condition property="warn.excludes.internal">
<and>
<isset property="named.module.internal"/>
<length length="0" string="@{excludes}" trim="true" when="greater"/>
</and>
</condition>
<echo if:set="warn.excludes.internal" level="warning" message="The javac
excludes are not supported in the JDK 9 Named Module."/>
<property location="${build.dir}/empty" name="empty.dir"/>
<mkdir dir="${empty.dir}"/>
<mkdir dir="@{apgeneratedsrcdir}"/>
<condition property="processormodulepath.set">
<resourcecount count="0" when="greater">
<path>
<pathelement path="@{processormodulepath}"/>
</path>
</resourcecount>
</condition>
<javac debug="@{debug}" deprecation="${javac.deprecation}" destdir="@{destdir
}" encoding="${source.encoding}" excludes="@{excludes}" fork="${javac.fork}"
includeantruntime="false" includes="@{includes}" source="${javac.source}" sou
rcepath="@{sourcepath}" srcdir="@{srcdir}" target="${javac.target}" tempdir="
${java.io.tmpdir}">
<src>
<dirset dir="@{gensrcdir}" erroronmissingdir="false">
<include name="*" />
</dirset>
</src>
<classpath>
<path path="@{classpath}"/>
</classpath>
<modulepath>
<path path="@{modulepath}"/>
</modulepath>
<upgrademodulepath>
<path path="@{upgrademodulepath}"/>
</upgrademodulepath>
<compilerarg line="${javac.systemmodulepath.cmd.line.arg}"/>
<compilerarg line="${javac.profile.cmd.line.arg}"/>
<compilerarg line="${javac.compilerargs}"/>
<compilerarg if:set="processormodulepath.set" value="--processor-module-
path"/>
<compilerarg if:set="processormodulepath.set" path="@{processormodulepath}"/>

```

```

<compilerarg unless:set="processormodulepath.set" value="-processorpath"/>
<compilerarg path="@{processorpath}:${empty.dir}" unless:set="processormodule
path.set"/>
<compilerarg line="${ap.processors.internal}"/>
<compilerarg line="${annotation.processing.processor.options}"/>
<compilerarg value="-s"/>
<compilerarg path="@{apgeneratedsrcdir}"/>
<compilerarg line="${ap.proc.none.internal}"/>
<customize/>
</javac>
</sequential>
</macrodef>
</target>
<target depends="-init-ap-cmdline-properties,-init-source-module-
properties" if="ap.supported.internal" name="-init-macrodef-javac-with-
processors" unless="modules.supported.internal">
<macrodef name="javac" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${src.dir}" name="srcdir"/>
<attribute default="${build.classes.dir}" name="destdir"/>
<attribute default="${javac.classpath}" name="classpath"/>
<attribute default="${javac.modulepath}" name="modulepath"/>
<attribute default="${javac.upgrademodulepath}" name="upgrademodulepath"/>
<attribute default="${javac.processorpath}" name="processorpath"/>
<attribute default="${build.generated.sources.dir}/ap-source-
output" name="apgeneratedsrcdir"/>
<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<attribute default="${javac.debug}" name="debug"/>
<attribute default="${empty.dir}" name="sourcepath"/>
<attribute default="${empty.dir}" name="gensrcdir"/>
<element name="customize" optional="true"/>
<sequential>
<property location="${build.dir}/empty" name="empty.dir"/>
<mkdir dir="${empty.dir}"/>
<mkdir dir="@{apgeneratedsrcdir}"/>
<javac debug="@{debug}" deprecation="${javac.deprecation}" destdir="@{destdir}"
encoding="${source.encoding}" excludes="@{excludes}" fork="${javac.fork}"
includeantruntime="false" includes="@{includes}" source="${javac.source}" sou
rcepath="@{sourcepath}" srcdir="@{srcdir}" target="${javac.target}" tempdir="
${java.io.tmpdir}">
<src>
<dirset dir="@{gensrcdir}" erroronmissingdir="false">
<include name="*" />
</dirset>
</src>
<classpath>
<path path="@{classpath}"/>
</classpath>
<compilerarg line="${endorsed.classpath.cmd.line.arg}"/>
<compilerarg line="${javac.profile.cmd.line.arg}"/>
<compilerarg line="${javac.compilerargs}"/>
<compilerarg value="-processorpath"/>
<compilerarg path="@{processorpath}:${empty.dir}"/>
<compilerarg line="${ap.processors.internal}"/>
<compilerarg line="${annotation.processing.processor.options}"/>
<compilerarg value="-s"/>
<compilerarg path="@{apgeneratedsrcdir}"/>

```

```

<compilerarg line="\${ap.proc.none.internal}"/>
<customize/>
</javac>
</sequential>
</macrodef>
</target>
<target depends="-init-ap-cmdline-properties,-init-source-module-
properties" name="-init-macrodef-javac-without-
processors" unless="ap.supported.internal">
<macrodef name="javac" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="\${src.dir}" name="srcdir"/>
<attribute default="\${build.classes.dir}" name="destdir"/>
<attribute default="\${javac.classpath}" name="classpath"/>
<attribute default="\${javac.modulepath}" name="modulepath"/>
<attribute default="\${javac.upgrademodulepath}" name="upgrademodulepath"/>
<attribute default="\${javac.processorpath}" name="processorpath"/>
<attribute default="\${build.generated.sources.dir}/ap-source-
output" name="apgeneratedsrcdir"/>
<attribute default="\${includes}" name="includes"/>
<attribute default="\${excludes}" name="excludes"/>
<attribute default="\${javac.debug}" name="debug"/>
<attribute default="\${empty.dir}" name="sourcepath"/>
<attribute default="\${empty.dir}" name="gensrcdir"/>
<element name="customize" optional="true"/>
<sequential>
<property location="\${build.dir}/empty" name="empty.dir"/>
<mkdir dir="\${empty.dir}"/>
<javac debug="@{debug}" deprecation="\${javac.deprecation}" destdir="@{destdir}"
encoding="\${source.encoding}" excludes="@{excludes}" fork="\${javac.fork}"
includeantruntime="false" includes="@{includes}" source="\${javac.source}" sou
rcepath="@{sourcepath}" srcdir="@{srcdir}" target="\${javac.target}" tmpdir="
\${java.io.tmpdir}">
<src>
<dirset dir="@{gensrcdir}" erroronmissingdir="false">
<include name="*" />
</dirset>
</src>
<classpath>
<path path="@{classpath}" />
</classpath>
<compilerarg line="\${endorsed.classpath.cmd.line.arg}" />
<compilerarg line="\${javac.profile.cmd.line.arg}" />
<compilerarg line="\${javac.compilerargs}" />
<customize/>
</javac>
</sequential>
</macrodef>
</target>
<target depends="-init-macrodef-javac-with-module,-init-macrodef-javac-with-
processors,-init-macrodef-javac-without-processors" name="-init-macrodef-
javac">
<macrodef name="depend" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="\${src.dir}" name="srcdir"/>
<attribute default="\${build.classes.dir}" name="destdir"/>
<attribute default="\${javac.classpath}" name="classpath"/>
<sequential>

```

```

<depend cache="${build.dir}/depcache" destdir="@{destdir}" excludes="${excludes}" includes="${includes}" srcdir="@{srcdir}">
<classpath>
<path path="@{classpath}"/>
</classpath>
</depend>
</sequential>
</macrodef>
<macrodef name="force-recompile" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${build.classes.dir}" name="destdir"/>
<sequential>
<fail unless="javac.includes">Must set javac.includes</fail>
<pathconvert pathsep="${line.separator}" property="javac.includes.binary">
<path>
<filelist dir="@{destdir}" files="${javac.includes}"/>
</path>
<globmapper from="*.java" to="*.class"/>
</pathconvert>
<tempfile deleteonexit="true" property="javac.includesfile.binary"/>
<echo file="${javac.includesfile.binary}" message="${javac.includes.binary}"/>
>
<delete>
<files includesfile="${javac.includesfile.binary}"/>
</delete>
<delete>
<fileset file="${javac.includesfile.binary}"/>
</delete>
</sequential>
</macrodef>
</target>
<target if="${junit.available}" name="-init-macrodef-junit-init">
<condition else="false" property="nb.junit.batch" value="true">
<and>
<istrue value="${junit.available}"/>
<not>
<isset property="test.method"/>
</not>
</and>
</condition>
<condition else="false" property="nb.junit.single" value="true">
<and>
<istrue value="${junit.available}"/>
<isset property="test.method"/>
</and>
</condition>
</target>
<target name="-init-test-properties">
<property name="test.binaryincludes" value="<nothing>"/>
<property name="test.binarytestincludes" value=""/>
<property name="test.binaryexcludes" value=""/>
</target>
<target depends="-init-modules-supported" if="modules.supported.internal" name="-init-macrodef-junit-prototype-with-module">
<macrodef name="junit-prototype" uri="http://www.netbeans.org/ns/j2se-project/3">

```

```

<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<element name="customizePrototype" optional="true"/>
<sequential>
<property name="junit.forkmode" value="perTest"/>
<junit dir="${work.dir}" errorproperty="tests.failed" failureproperty="tests.
failed" fork="true" forkmode="${junit.forkmode}" showoutput="true" tempdir="$
{build.dir}">
<syspropertyset>
<propertyref prefix="test-sys-prop."/>
<mapper from="test-sys-prop.*" to="*" type="glob"/>
</syspropertyset>
<classpath>
<path path="${run.test.classpath}"/>
</classpath>
<modulepath>
<path path="${run.test.modulepath}"/>
</modulepath>
<formatter type="brief" usefile="false"/>
<formatter type="xml"/>
<jvmarg line="${endorsed.classpath.cmd.line.arg}"/>
<jvmarg value="-ea"/>
<jvmarg line="${run.test.jvmargs}"/>
<customizePrototype/>
</junit>
</sequential>
</macrodef>
</target>
<target depends="-init-modules-supported" name="-init-macrodef-junit-
prototype-without-module" unless="modules.supported.internal">
<macrodef name="junit-prototype" uri="http://www.netbeans.org/ns/j2se-
project/3">
<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<element name="customizePrototype" optional="true"/>
<sequential>
<property name="junit.forkmode" value="perTest"/>
<junit dir="${work.dir}" errorproperty="tests.failed" failureproperty="tests.
failed" fork="true" forkmode="${junit.forkmode}" showoutput="true" tempdir="$
{build.dir}">
<syspropertyset>
<propertyref prefix="test-sys-prop."/>
<mapper from="test-sys-prop.*" to="*" type="glob"/>
</syspropertyset>
<classpath>
<path path="${run.test.classpath}"/>
</classpath>
<formatter type="brief" usefile="false"/>
<formatter type="xml"/>
<jvmarg line="${endorsed.classpath.cmd.line.arg}"/>
<jvmarg value="-ea"/>
<customizePrototype/>
</junit>
</sequential>
</macrodef>
</target>

```

```

<target depends="-init-test-properties,-init-macrodef-junit-prototype-with-
module,-init-macrodef-junit-prototype-without-
module" if="{nb.junit.single}" name="-init-macrodef-junit-
single" unless="{nb.junit.batch}">
<macrodef name="junit" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="{includes}" name="includes"/>
<attribute default="{excludes}" name="excludes"/>
<attribute default="*" name="testincludes"/>
<attribute default="" name="testmethods"/>
<element name="customize" optional="true"/>
<sequential>
<j2seproject3:junit-prototype>
<customizePrototype>
<test methods="@{testmethods}" name="@{testincludes}" todir="{build.test.res
ults.dir}"/>
<customize/>
</customizePrototype>
</j2seproject3:junit-prototype>
</sequential>
</macrodef>
</target>

<target depends="-init-test-properties,-init-macrodef-junit-prototype-with-
module,-init-macrodef-junit-prototype-without-
module" if="{nb.junit.batch}" name="-init-macrodef-junit-
batch" unless="{nb.junit.single}">
<macrodef name="junit" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="{includes}" name="includes"/>
<attribute default="{excludes}" name="excludes"/>
<attribute default="*" name="testincludes"/>
<attribute default="" name="testmethods"/>
<element name="customize" optional="true"/>
<sequential>
<j2seproject3:junit-prototype>
<customizePrototype>
<batchtest todir="{build.test.results.dir}">
<fileset dir="{test.src.dir}" excludes="@{excludes},{excludes}" includes="@
{includes}">
<filename name="@{testincludes}"/>
</fileset>
<fileset dir="{build.test.classes.dir}" excludes="@{excludes},{excludes},{
test.binaryexcludes}" includes="{test.binaryincludes}">
<filename name="{test.binarytestincludes}"/>
</fileset>
</batchtest>
<customize/>
</customizePrototype>
</j2seproject3:junit-prototype>
</sequential>
</macrodef>
</target>

<target depends="-init-macrodef-junit-init,-init-macrodef-junit-single, -
init-macrodef-junit-batch" if="{junit.available}" name="-init-macrodef-
junit"/>
<target if="{testng.available}" name="-init-macrodef-testng">
<macrodef name="testng" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="{includes}" name="includes"/>
<attribute default="{excludes}" name="excludes"/>

```



```

<attribute default="*" name="testincludes"/>
<attribute default="" name="testmethods"/>
<element name="customize" optional="true"/>
<sequential>
<condition else="" property="testng.methods.arg" value="@{testincludes}.@{testmethods}">
<isset property="test.method"/>
</condition>
<union id="test.set">
<fileset dir="${test.src.dir}" excludes="@{excludes},**/*.xml,{excludes}" includes="@{includes}">
<filename name="@{testincludes}"/>
</fileset>
</union>
<taskdef classname="org.testng.TestNGAntTask" classpath="${run.test.classpath}" name="testng"/>
<testng classfilesetref="test.set" failureProperty="tests.failed" listeners="org.testng.reporters.VerboseReporter" methods="${testng.methods.arg}" mode="${testng.mode}" outputdir="${build.test.results.dir}" suiteName="tugas5" testName="TestNG tests" workingDir="${work.dir}">
<xmlfileset dir="${build.test.classes.dir}" includes="@{testincludes}"/>
<propertyset>
<propertyref prefix="test-sys-prop."/>
<mapper from="test-sys-prop.*" to="*" type="glob"/>
</propertyset>
<classpath>
<path path="${run.test.classpath}"/>
</classpath>
<jvmarg line="${endorsed.classpath.cmd.line.arg}"/>
<customize/>
</testng>
</sequential>
</macrodef>
</target>
<target name="-init-macrodef-test-impl">
<macrodef name="test-impl" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<attribute default="*" name="testincludes"/>
<attribute default="" name="testmethods"/>
<element implicit="true" name="customize" optional="true"/>
<sequential>
<echo>No tests executed.</echo>
</sequential>
</macrodef>
</target>
<target depends="-init-macrodef-junit" if="${junit.available}" name="-init-macrodef-junit-impl">
<macrodef name="test-impl" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<attribute default="*" name="testincludes"/>
<attribute default="" name="testmethods"/>
<element implicit="true" name="customize" optional="true"/>
<sequential>
<j2seproject3:junit excludes="@{excludes}" includes="@{includes}" testincludes="@{testincludes}" testmethods="@{testmethods}">

```

```

<customize/>
</j2seproject3:junit>
</sequential>
</macrodef>
</target>
<target depends="-init-macrodef-testng" if="${testng.available}" name="-init-
macrodef-testng-impl">
<macrodef name="test-impl" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<attribute default="***" name="testincludes"/>
<attribute default="" name="testmethods"/>
<element implicit="true" name="customize" optional="true"/>
<sequential>
<j2seproject3:testng excludes="@{excludes}" includes="@{includes}" testinclud
es="@{testincludes}" testmethods="@{testmethods}">
<customize/>
</j2seproject3:testng>
</sequential>
</macrodef>
</target>
<target depends="-init-macrodef-test-impl,-init-macrodef-junit-impl,-init-
macrodef-testng-impl" name="-init-macrodef-test">
<macrodef name="test" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<attribute default="***" name="testincludes"/>
<attribute default="" name="testmethods"/>
<sequential>
<j2seproject3:test-
impl excludes="@{excludes}" includes="@{includes}" testincludes="@{testinclud
es}" testmethods="@{testmethods}">
<customize>
<jvmarg line="${run.jvmargs}"/>
<jvmarg line="${run.jvmargs.ide}"/>
</customize>
</j2seproject3:test-impl>
</sequential>
</macrodef>
</target>
<target depends="-init-macrodef-junit" if="${junit.available}" name="-init-
macrodef-junit-debug-impl">
<macrodef name="test-debug-impl" uri="http://www.netbeans.org/ns/j2se-
project/3">
<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<attribute default="***" name="testincludes"/>
<attribute default="" name="testmethods"/>
<element name="customizeDebuggee" optional="true"/>
<sequential>
<j2seproject3:junit excludes="@{excludes}" includes="@{includes}" testinclude
s="@{testincludes}" testmethods="@{testmethods}">
<customize>
<jvmarg value="-agentlib:jdwp=transport=${debug-
transport},address=${jpda.address}"/>
<customizeDebuggee/>
</customize>

```

```

</j2seproject3:junit>
</sequential>
</macrodef>
</target>
<target if="${testng.available}" name="-init-macrodef-testng-debug">
<macrodef name="testng-debug" uri="http://www.netbeans.org/ns/j2se-
project/3">
<attribute default="${main.class}" name="testClass"/>
<attribute default="" name="testMethod"/>
<element name="customize2" optional="true"/>
<sequential>
<condition else="-testclass
@{testClass}" property="test.class.or.method" value="-methods
@{testClass}.@{testMethod}">
<isset property="test.method"/>
</condition>
<condition else="-suite name tugas5 -testname @{testClass}
${test.class.or.method}" property="testng.cmd.args" value="@{testClass}">
<matches pattern=".*\.xml" string="@{testClass}" />
</condition>
<delete dir="${build.test.results.dir}" quiet="true"/>
<mkdir dir="${build.test.results.dir}" />
<j2seproject3:debug classname="org.testng.TestNG" classpath="${debug.test.cla
sspath}">
<customizeDebuggee>
<customize2/>
<jvmarg value="-ea"/>
<arg line="${testng.debug.mode}" />
<arg line="-d ${build.test.results.dir}" />
<arg line="-listener org.testng.reporters.VerboseReporter"/>
<arg line="${testng.cmd.args}" />
</customizeDebuggee>
</j2seproject3:debug>
</sequential>
</macrodef>
</target>
<target depends="-init-macrodef-testng-
debug" if="${testng.available}" name="-init-macrodef-testng-debug-impl">
<macrodef name="testng-debug-impl" uri="http://www.netbeans.org/ns/j2se-
project/3">
<attribute default="${main.class}" name="testClass"/>
<attribute default="" name="testMethod"/>
<element implicit="true" name="customize2" optional="true"/>
<sequential>
<j2seproject3:testng-
debug testClass="@{testClass}" testMethod="@{testMethod}">
<customize2/>
</j2seproject3:testng-debug>
</sequential>
</macrodef>
</target>
<target depends="-init-macrodef-junit-debug-
impl" if="${junit.available}" name="-init-macrodef-test-debug-junit">
<macrodef name="test-debug" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<attribute default="*" name="testincludes"/>

```

```

<attribute default="" name="testMethods"/>
<attribute default="${main.class}" name="testClass"/>
<attribute default="" name="testMethod"/>
<sequential>
<j2seproject3:test-debug-
impl excludes="@{excludes}" includes="@{includes}" testincludes="@{testinclud
es}" testmethods="@{testmethods}">
<customizeDebuggee>
<jvmarg line="${run.jvmargs}"/>
<jvmarg line="${run.jvmargs.ide}"/>
</customizeDebuggee>
</j2seproject3:test-debug-impl>
</sequential>
</macrodef>
</target>
<target depends="-init-macrodef-testng-debug-
impl" if="${testng.available}" name="-init-macrodef-test-debug-testng">
<macrodef name="test-debug" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${includes}" name="includes"/>
<attribute default="${excludes}" name="excludes"/>
<attribute default="*" name="testincludes"/>
<attribute default="" name="testMethods"/>
<attribute default="${main.class}" name="testClass"/>
<attribute default="" name="testMethod"/>
<sequential>
<j2seproject3:testng-debug-
impl testClass="@{testClass}" testMethod="@{testMethod}">
<customize2>
<syspropertyset>
<propertyref prefix="test-sys-prop."/>
<mapper from="test-sys-prop.*" to="*" type="glob"/>
</syspropertyset>
</customize2>
</j2seproject3:testng-debug-impl>
</sequential>
</macrodef>
</target>
<target depends="-init-macrodef-test-debug-junit,-init-macrodef-test-debug-
testng" name="-init-macrodef-test-debug"/>
<!--
        pre NB7.2 profiling section; consider it deprecated
-->
<target depends="-profile-pre-init, init, -profile-post-init, -profile-init-
macrodef-profile, -profile-init-
check" if="profiler.info.jvmargs.agent" name="profile-init"/>
<target if="profiler.info.jvmargs.agent" name="-profile-pre-init">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target if="profiler.info.jvmargs.agent" name="-profile-post-init">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target if="profiler.info.jvmargs.agent" name="-profile-init-macrodef-
profile">
<macrodef name="resolve">
<attribute name="name"/>

```

```

<attribute name="value"/>
<sequential>
<property name="@{name}" value="${env.@{value}}"/>
</sequential>
</macrodef>
<macrodef name="profile">
<attribute default="${main.class}" name="classname"/>
<element name="customize" optional="true"/>
<sequential>
<property environment="env"/>
<resolve name="profiler.current.path" value="${profiler.info.pathvar}"/>
<java classname="@{classname}" dir="${profiler.info.dir}" failonerror="${java
.failonerror}" fork="true" jvm="${profiler.info.jvm}">
<jvmarg line="${endorsed.classpath.cmd.line.arg}"/>
<jvmarg value="${profiler.info.jvmargs.agent}"/>
<jvmarg line="${profiler.info.jvmargs}"/>
<env key="${profiler.info.pathvar}" path="${profiler.info.agentpath}:${profil
er.current.path}"/>
<arg line="${application.args}"/>
<classpath>
<path path="${run.classpath}"/>
</classpath>
<syspropertyset>
<propertyref prefix="run-sys-prop."/>
<mapper from="run-sys-prop.*" to="*" type="glob"/>
</syspropertyset>
<customize/>
</java>
</sequential>
</macrodef>
</target>
<target depends="-profile-pre-init, init, -profile-post-init, -profile-init-
macrodef-profile" if="profiler.info.jvmargs.agent" name="-profile-init-
check">
<fail unless="profiler.info.jvm">Must set JVM to use for profiling in
profiler.info.jvm</fail>
<fail unless="profiler.info.jvmargs.agent">Must set profiler agent JVM
arguments in profiler.info.jvmargs.agent</fail>
</target>
<!--
        end of pre NB7.2 profiling section
-->
<target depends="-init-debug-args" name="-init-macrodef-nbjpda">
<macrodef name="nbjpdastart" uri="http://www.netbeans.org/ns/j2se-project/1">
<attribute default="${main.class}" name="name"/>
<attribute default="${debug.modulepath}" name="modulepath"/>
<attribute default="${debug.classpath}" name="classpath"/>
<attribute default="" name="stopclassname"/>
<sequential>
<nbjpdastart addressproperty="jpda.address" name="@{name}" stopclassname="@{s
topclassname}" transport="${debug-transport}">
<modulepath>
<path path="@{modulepath}"/>
</modulepath>
<classpath>
<path path="@{classpath}"/>
</classpath>

```

```

</nbjpdastart>
</sequential>
</macrodef>
<macrodef name="nbjpdareload" uri="http://www.netbeans.org/ns/j2se-
project/1">
<attribute default="${build.classes.dir}" name="dir"/>
<sequential>
<nbjpdareload>
<fileset dir="@{dir}" includes="${fix.classes}">
<include name="${fix.includes}*.class"/>
</fileset>
</nbjpdareload>
</sequential>
</macrodef>
</target>
<target name="-init-debug-args">
<condition else="dt_socket" property="debug-transport-by-
os" value="dt_shmem">
<os family="windows"/>
</condition>
<condition else="${debug-transport-by-os}" property="debug-
transport" value="${debug.transport}">
<isset property="debug.transport"/>
</condition>
</target>
<target depends="-init-debug-args" name="-init-macrodef-debug">
<macrodef name="debug" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${module.name}" name="modulename"/>
<attribute default="${main.class}" name="classname"/>
<attribute default="${debug.modulepath}" name="modulepath"/>
<attribute default="${debug.classpath}" name="classpath"/>
<element name="customizeDebuggee" optional="true"/>
<sequential>
<j2seproject1:java classname="@{classname}" classpath="@{classpath}" modulena
me="@{modulename}" modulepath="@{modulepath}">
<customize>
<jvmarg value="-agentlib:jdwp=transport=${debug-
transport},address=${jpda.address}"/>
<customizeDebuggee/>
</customize>
</j2seproject1:java>
</sequential>
</macrodef>
</target>
<target depends="-init-source-module-
properties" if="named.module.internal" name="-init-macrodef-java-with-
module">
<macrodef name="java" uri="http://www.netbeans.org/ns/j2se-project/1">
<attribute default="${module.name}" name="modulename"/>
<attribute default="${main.class}" name="classname"/>
<attribute default="${run.modulepath}" name="modulepath"/>
<attribute default="${run.upgrademodulepath}" name="upgrademodulepath"/>
<attribute default="${run.classpath}" name="classpath"/>
<attribute default="jvm" name="jvm"/>
<element name="customize" optional="true"/>
<sequential>

```

```

<java classname="@{classname}" dir="${work.dir}" failonerror="${java.failoner
ror}" fork="true" module="@{modulename}">
<classpath>
<path path="@{classpath}"/>
</classpath>
<modulepath>
<pathelement path="@{modulepath}"/>
<pathelement location="${module.build.classes.dir}"/>
</modulepath>
<upgrademodulepath>
<path path="@{upgrademodulepath}"/>
</upgrademodulepath>
<jvmarg value="-Dfile.encoding=${runtime.encoding}"/>
<redirector errorencoding="${runtime.encoding}" inputencoding="${runtime.enco
ding}" outputencoding="${runtime.encoding}"/>
<jvmarg line="${run.jvmargs}"/>
<jvmarg line="${run.jvmargs.ide}"/>
<syspropertyset>
<propertyref prefix="run-sys-prop."/>
<mapper from="run-sys-prop.*" to="*" type="glob"/>
</syspropertyset>
<customize/>
</java>
</sequential>
</macrodef>
</target>
<target depends="-init-source-module-
properties" if="unnamed.module.internal" name="-init-macrodef-java-with-
unnamed-module">
<macrodef name="java" uri="http://www.netbeans.org/ns/j2se-project/1">
<attribute default="" name="modulename"/>
<attribute default="${main.class}" name="classname"/>
<attribute default="${run.modulepath}" name="modulepath"/>
<attribute default="${run.upgrademodulepath}" name="upgrademodulepath"/>
<attribute default="${run.classpath}" name="classpath"/>
<attribute default="jvm" name="jvm"/>
<element name="customize" optional="true"/>
<sequential>
<java classname="@{classname}" dir="${work.dir}" failonerror="${java.failoner
ror}" fork="true">
<classpath>
<path path="@{classpath}"/>
</classpath>
<modulepath>
<path path="@{modulepath}"/>
</modulepath>
<upgrademodulepath>
<path path="@{upgrademodulepath}"/>
</upgrademodulepath>
<jvmarg value="-Dfile.encoding=${runtime.encoding}"/>
<redirector errorencoding="${runtime.encoding}" inputencoding="${runtime.enco
ding}" outputencoding="${runtime.encoding}"/>
<jvmarg line="${run.jvmargs}"/>
<jvmarg line="${run.jvmargs.ide}"/>
<syspropertyset>
<propertyref prefix="run-sys-prop."/>
<mapper from="run-sys-prop.*" to="*" type="glob"/>

```

```

</syspropertyset>
<customize/>
</java>
</sequential>
</macrodef>
</target>
<target depends="-init-source-module-properties" name="-init-macrodef-java-
without-module" unless="modules.supported.internal">
<macrodef name="java" uri="http://www.netbeans.org/ns/j2se-project/1">
<attribute default="" name="modulename"/>
<attribute default="${main.class}" name="classname"/>
<attribute default="" name="modulepath"/>
<attribute default="${run.classpath}" name="classpath"/>
<attribute default="jvm" name="jvm"/>
<element name="customize" optional="true"/>
<sequential>
<java classname="@{classname}" dir="${work.dir}" failonerror="${java.failoner
ror}" fork="true">
<jvmarg line="${endorsed.classpath.cmd.line.arg}"/>
<jvmarg value="-Dfile.encoding=${runtime.encoding}"/>
<redirector errorencoding="${runtime.encoding}" inputencoding="${runtime.enco
ding}" outputencoding="${runtime.encoding}"/>
<jvmarg line="${run.jvmargs}"/>
<jvmarg line="${run.jvmargs.ide}"/>
<classpath>
<path path="@{classpath}"/>
</classpath>
<syspropertyset>
<propertyref prefix="run-sys-prop."/>
<mapper from="run-sys-prop.*" to="*" type="glob"/>
</syspropertyset>
<customize/>
</java>
</sequential>
</macrodef>
</target>
<target depends="-init-macrodef-java-with-module, -init-macrodef-java-with-
unnamed-module, -init-macrodef-java-without-module" name="-init-macrodef-
java"/>
<target name="-init-macrodef-copylibs">
<macrodef name="copylibs" uri="http://www.netbeans.org/ns/j2se-project/3">
<attribute default="${manifest.file}" name="manifest"/>
<element name="customize" optional="true"/>
<sequential>
<property location="${build.classes.dir}" name="build.classes.dir.resolved"/>
<pathconvert property="run.classpath.without.build.classes.dir">
<path path="${run.classpath}"/>
<map from="${build.classes.dir.resolved}" to=""/>
</pathconvert>
<pathconvert pathsep=" " property="jar.classpath">
<path path="${run.classpath.without.build.classes.dir}"/>
<chainedmapper>
<flattenmapper/>
<filtermapper>
<replacestring from=" " to="%20"/>
</filtermapper>
<globmapper from="*" to="lib/*"/>

```



```

</chainedmapper>
</pathconvert>
<taskdef classname="org.netbeans.modules.java.j2seproject.copylibstask.CopyLibs" classpath="${libs.CopyLibs.classpath}" name="copylibs"/>
<copylibs compress="${jar.compress}" excludeFromCopy="${copylibs.excludes}" index="${jar.index}" indexMetaInf="${jar.index.metainf}" jarfile="${dist.jar}" manifest="@{manifest}" manifestencoding="UTF-8" rebase="${copylibs.rebase}" runtimeclasspath="${run.classpath.without.build.classes.dir}">
<fileset dir="${build.classes.dir}" excludes="${dist.archive.excludes}"/>
<manifest>
<attribute name="Class-Path" value="${jar.classpath}"/>
<customize/>
</manifest>
</copylibs>
</sequential>
</macrodef>
</target>
<target name="-init-presetdef-jar">
<presetdef name="jar" uri="http://www.netbeans.org/ns/j2se-project/1">
<jar compress="${jar.compress}" index="${jar.index}" jarfile="${dist.jar}" manifestencoding="UTF-8">
<j2seproject1:fileset dir="${build.classes.dir}" excludes="${dist.archive.excludes}"/>
</jar>
</presetdef>
</target>
<target name="-init-ap-cmdline-properties">
<property name="annotation.processing.enabled" value="true"/>
<property name="annotation.processing.processors.list" value=""/>
<property name="annotation.processing.processor.options" value=""/>
<property name="annotation.processing.run.all.processors" value="true"/>
<property name="javac.processorpath" value="${javac.classpath}"/>
<property name="javac.test.processorpath" value="${javac.test.classpath}"/>
<condition property="ap.supported.internal" value="true">
<not>
<matches pattern="1\.[0-5](\..*)?" string="${javac.source}"/>
</not>
</condition>
</target>
<target depends="-init-ap-cmdline-properties" if="ap.supported.internal" name="-init-ap-cmdline-supported">
<condition else="" property="ap.processors.internal" value="-processor ${annotation.processing.processors.list}">
<isfalse value="${annotation.processing.run.all.processors}"/>
</condition>
<condition else="" property="ap.proc.none.internal" value="-proc:none">
<isfalse value="${annotation.processing.enabled}"/>
</condition>
</target>
<target depends="-init-ap-cmdline-properties,-init-ap-cmdline-supported" name="-init-ap-cmdline">
<property name="ap.cmd.line.internal" value=""/>
</target>
<target depends="-pre-init,-init-private,-init-user,-init-project,-do-init,-post-init,-init-check,-init-macrodef-property,-init-macrodef-javac,-init-

```

```
macrodef-test,-init-macrodef-test-debug,-init-macrodef-nbjpda,-init-macrodef-
debug,-init-macrodef-java,-init-presetdef-jar,-init-ap-cmdline" name="init"/>
<!--
```

```
=====
COMPILE SECTION
=====
```

```
-->
<target name="-deps-jar-init" unless="built-jar.properties">
<property location="${build.dir}/built-jar.properties" name="built-
jar.properties"/>
<delete file="${built-jar.properties}" quiet="true"/>
</target>
<target if="already.built.jar.${basedir}" name="-warn-already-built-jar">
<echo level="warn" message="Cycle detected: tugas5 was already built"/>
</target>
<target depends="init,-deps-jar-init" name="deps-jar" unless="no.deps">
<mkdir dir="${build.dir}"/>
<touch file="${built-jar.properties}" verbose="false"/>
<property file="${built-jar.properties}" prefix="already.built.jar."/>
<antcall target="-warn-already-built-jar"/>
<propertyfile file="${built-jar.properties}">
<entry key="${basedir}" value=""/>
</propertyfile>
</target>
<target depends="init,-check-automatic-build,-clean-after-automatic-
build" name="-verify-automatic-build"/>
<target depends="init" name="-check-automatic-build">
<available file="${build.classes.dir}/.netbeans_automatic_build" property="ne
tbeans.automatic.build"/>
</target>
<target depends="init" if="netbeans.automatic.build" name="-clean-after-
automatic-build">
<antcall target="clean">
<param name="no.dependencies" value="true"/>
</antcall>
</target>
<target depends="init,deps-jar" name="-pre-pre-compile">
<mkdir dir="${build.classes.dir}"/>
</target>
<target name="-pre-compile">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target if="do.depend.true" name="-compile-depend">
<pathconvert property="build.generated.subdirs">
<dirset dir="${build.generated.sources.dir}" erroronmissingdir="false">
<include name="*/>
</dirset>
</pathconvert>
<j2seproject3:depend srcdir="${src.dir}:${build.generated.subdirs}"/>
</target>
<target depends="init,deps-jar,-pre-pre-compile,-pre-compile, -copy-
persistence-xml,-compile-depend" if="have.sources" name="-do-compile">
<j2seproject3:javac gensrcdir="${build.generated.sources.dir}"/>
<copy todir="${build.classes.dir}">
<fileset dir="${src.dir}" excludes="${build.classes.excludes},${excludes}" in
cludes="${includes}"/>
```

```

</copy>
</target>
<target if="has.persistence.xml" name="-copy-persistence-xml">
<mkdir dir="${build.classes.dir}/META-INF"/>
<copy todir="${build.classes.dir}/META-INF">
<fileset dir="${meta.inf.dir}" includes="persistence.xml orm.xml"/>
</copy>
</target>
<target name="-post-compile">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="init,deps-jar,-verify-automatic-build,-pre-pre-compile,-pre-compile,-do-compile,-post-compile" description="Compile project." name="compile"/>
<target name="-pre-compile-single">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="init,deps-jar,-pre-pre-compile" name="-do-compile-single">
<fail unless="javac.includes">Must select some files in the IDE or set
javac.includes</fail>
<j2seproject3:force-recompile/>
<j2seproject3:javac excludes="" gensrcdir="${build.generated.sources.dir}" in
cludes="${javac.includes}, module-info.java" sourcepath="${src.dir}"/>
</target>
<target name="-post-compile-single">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="init,deps-jar,-verify-automatic-build,-pre-pre-compile,-pre-compile-single,-do-compile-single,-post-compile-single" name="compile-single"/>
<!--
=====
JAR BUILDING SECTION
=====
-->
<target depends="init" name="-pre-pre-jar">
<dirname file="${dist.jar}" property="dist.jar.dir"/>
<mkdir dir="${dist.jar.dir}"/>
</target>
<target name="-pre-jar">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="init,compile" name="-check-module-main-class">
<pathconvert property="main.class.file">
<string value="${main.class}"/>
<unpackagemapper from="*" to="*.class"/>
</pathconvert>
<condition property="do.module.main.class">
<and>
<isset property="main.class.available"/>
<available file="${build.classes.dir}/module-info.class"/>
<available file="${build.classes.dir}/${main.class.file}"/>
<isset property="libs.CopyLibs.classpath"/>

```

```

<available classname="org.netbeans.modules.java.j2seproject.moduletask.Module
MainClass" classpath="${libs.CopyLibs.classpath}"/>
</and>
</condition>
</target>
<target depends="-check-module-main-class" if="do.module.main.class" name="-
set-module-main-class">
<taskdef classname="org.netbeans.modules.java.j2seproject.moduletask.ModuleMa
inClass" classpath="${libs.CopyLibs.classpath}" name="modulemainclass"/>
<modulemainclass failonerror="false" mainclass="${main.class}" moduleinfo="${
build.classes.dir}/module-info.class"/>
</target>
<target depends="init" if="do.archive" name="-do-jar-create-
manifest" unless="manifest.available">
<tempfile deleteonexit="true" destdir="${build.dir}" property="tmp.manifest.f
ile"/>
<touch file="${tmp.manifest.file}" verbose="false"/>
</target>
<target depends="init" if="do.archive+manifest.available" name="-do-jar-copy-
manifest">
<tempfile deleteonexit="true" destdir="${build.dir}" property="tmp.manifest.f
ile"/>
<copy encoding="${manifest.encoding}" file="${manifest.file}" outputencoding=
"UTF-8" tofile="${tmp.manifest.file}"/>
</target>
<target depends="init,-do-jar-create-manifest,-do-jar-copy-
manifest" if="do.archive+main.class.available" name="-do-jar-set-mainclass">
<manifest encoding="UTF-8" file="${tmp.manifest.file}" mode="update">
<attribute name="Main-Class" value="${main.class}"/>
</manifest>
</target>
<target depends="init,-do-jar-create-manifest,-do-jar-copy-
manifest" if="do.archive+profile.available" name="-do-jar-set-profile">
<manifest encoding="UTF-8" file="${tmp.manifest.file}" mode="update">
<attribute name="Profile" value="{javac.profile}"/>
</manifest>
</target>
<target depends="init,-do-jar-create-manifest,-do-jar-copy-
manifest" if="do.archive+splashscreen.available" name="-do-jar-set-
splashscreen">
<basename file="${application.splash}" property="splashscreen.basename"/>
<mkdir dir="${build.classes.dir}/META-INF"/>
<copy failonerror="false" file="${application.splash}" todir="${build.classes
.dir}/META-INF"/>
<manifest encoding="UTF-8" file="${tmp.manifest.file}" mode="update">
<attribute name="SplashScreen-Image" value="META-
INF/${splashscreen.basename}"/>
</manifest>
</target>
<target depends="init,compile" name="-check-do-mkdist">
<condition property="do.mkdist">
<and>
<isset property="do.archive"/>
<isset property="libs.CopyLibs.classpath"/>
<not>
<istrue value="{mkdist.disabled}"/>
</not>

```

```

<not>
<available file="${build.classes.dir}/module-info.class"/>
</not>
</and>
</condition>
</target>
<target depends="init,-init-macrodef-copylibs,compile,-pre-pre-jar,-pre-jar,-
do-jar-create-manifest,-do-jar-copy-manifest,-do-jar-set-mainclass,-do-jar-
set-profile,-do-jar-set-splashscreen,-check-do-mkdist" if="do.mkdist" name="-
do-jar-copylibs">
<j2seproject3:copylibs manifest="${tmp.manifest.file}"/>
<echo level="info">To run this application from the command line without Ant,
try:</echo>
<property location="${dist.jar}" name="dist.jar.resolved"/>
<echo level="info">java -jar "${dist.jar.resolved}"</echo>
</target>
<target depends="init,compile,-pre-pre-jar,-pre-jar,-do-jar-create-manifest,-
do-jar-copy-manifest,-do-jar-set-mainclass,-do-jar-set-profile,-do-jar-set-
splashscreen,-check-do-mkdist" if="do.archive" name="-do-jar-
jar" unless="do.mkdist">
<j2seproject1:jar manifest="${tmp.manifest.file}"/>
<property location="${build.classes.dir}" name="build.classes.dir.resolved"/>
<property location="${dist.jar}" name="dist.jar.resolved"/>
<condition else="${dist.jar.resolved}" property="jar.usage.message.class.path
.replacement" value="">
<isset property="named.module.internal"/>
</condition>
<pathconvert property="run.classpath.with.dist.jar">
<path path="${run.classpath}"/>
<map from="${build.classes.dir.resolved}" to="${jar.usage.message.class.path.
replacement}"/>
</pathconvert>
<pathconvert property="run.modulepath.with.dist.jar">
<path location="${dist.jar.resolved}"/>
<path path="${run.modulepath}"/>
<map from="${build.classes.dir.resolved}" to="${dist.jar.resolved}"/>
</pathconvert>
<condition else="${run.modulepath}" property="jar.usage.message.run.modulepat
h.with.dist.jar" value="${run.modulepath.with.dist.jar}">
<isset property="named.module.internal"/>
</condition>
<condition else="" property="jar.usage.message.module.path" value=" -p
${jar.usage.message.run.modulepath.with.dist.jar}">
<and>
<isset property="modules.supported.internal"/>
<length length="0" string="${jar.usage.message.run.modulepath.with.dist.jar}"
when="greater"/>
</and>
</condition>
<condition else="" property="jar.usage.message.class.path" value=" -cp
${run.classpath.with.dist.jar}">
<length length="0" string="${run.classpath.with.dist.jar}" when="greater"/>
</condition>
<condition else="/${main.class}" property="jar.usage.message.main.class.class
.selector" value="">
<isset property="do.module.main.class"/>
</condition>

```

```

<condition else=" ${main.class}" property="jar.usage.message.main.class" valu
e=" -m ${module.name}${jar.usage.message.main.class.class.selector}">
<isset property="named.module.internal"/>
</condition>
<condition else="" property="jar.usage.message" value="To run this
application from the command line without Ant,
try:${line.separator}${platform.java}${jar.usage.message.module.path}${jar.us
age.message.class.path}${jar.usage.message.main.class}">
<isset property="main.class.available"/>
</condition>
<condition else="debug" property="jar.usage.level" value="info">
<isset property="main.class.available"/>
</condition>
<echo level="${jar.usage.level}" message="${jar.usage.message}"/>
</target>
<target depends="-do-jar-copylibs" if="do.archive" name="-do-jar-delete-
manifest">
<delete>
<fileset file="${tmp.manifest.file}"/>
</delete>
</target>
<target depends="init,compile,-pre-pre-jar,-pre-jar,-do-jar-create-manifest,-
do-jar-copy-manifest,-do-jar-set-mainclass,-do-jar-set-profile,-do-jar-set-
splashscreen,-do-jar-jar,-do-jar-delete-manifest" name="-do-jar-without-
libraries"/>
<target depends="init,compile,-pre-pre-jar,-pre-jar,-do-jar-create-manifest,-
do-jar-copy-manifest,-do-jar-set-mainclass,-do-jar-set-profile,-do-jar-set-
splashscreen,-do-jar-copylibs,-do-jar-delete-manifest" name="-do-jar-with-
libraries"/>
<target name="-post-jar">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="init,compile,-pre-jar,-set-module-main-class,-do-jar-
without-libraries,-do-jar-with-libraries,-post-jar" name="-do-jar"/>
<target depends="init,compile,-pre-jar,-do-jar,-post-
jar,deploy" description="Build JAR." name="jar"/>
<!--

=====
DEPLOY SECTION
=====

-->
<target name="-pre-deploy">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="init" name="-check-jlink">
<condition property="do.jlink.internal">
<and>
<istrue value="${do.jlink}"/>
<isset property="do.archive"/>
<isset property="named.module.internal"/>
</and>
</condition>
</target>
<target depends="init,-do-jar,-post-jar,-pre-deploy,-check-
jlink" if="do.jlink.internal" name="-do-deploy">

```

```

<delete dir="${dist.jlink.dir}" failonerror="false" quiet="true"/>
<property name="jlink.launcher.name" value="${application.title}"/>
<condition else="${module.name}" property="jlink.add.modules" value="${module
.name},${jlink.additionalmodules}">
<and>
<isset property="jlink.additionalmodules"/>
<length length="0" string="${jlink.additionalmodules}" when="greater"/>
</and>
</condition>
<condition property="jlink.do.strip.internal">
<and>
<isset property="jlink.strip"/>
<istrue value="${jlink.strip}"/>
</and>
</condition>
<condition property="jlink.do.additionalparam.internal">
<and>
<isset property="jlink.additionalparam"/>
<length length="0" string="${jlink.additionalparam}" when="greater"/>
</and>
</condition>
<condition property="jlink.do.launcher.internal">
<and>
<istrue value="${jlink.launcher}"/>
<isset property="main.class.available"/>
</and>
</condition>
<property name="platform.jlink" value="${jdk.home}/bin/jlink"/>
<property name="jlink.systemmodules.internal" value="${jdk.home}/jmods"/>
<exec executable="${platform.jlink}">
<arg value="--module-path"/>
<arg path="${jlink.systemmodules.internal}:${run.modulepath}:${dist.jar}"/>
<arg value="--add-modules"/>
<arg value="${jlink.add.modules}"/>
<arg if:set="jlink.do.strip.internal" value="--strip-debug"/>
<arg if:set="jlink.do.launcher.internal" value="--launcher"/>
<arg if:set="jlink.do.launcher.internal" value="${jlink.launcher.name}=${modu
le.name}/${main.class}"/>
<arg if:set="jlink.do.additionalparam.internal" line="${jlink.additionalparam
}"/>
<arg value="--output"/>
<arg value="${dist.jlink.output}"/>
</exec>
</target>
<target name="-post-deploy">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="-do-jar,-post-jar,-pre-deploy,-do-deploy,-post-
deploy" name="deploy"/>
<!--
=====
EXECUTION SECTION
=====
-->
<target depends="init,compile" description="Run a main class." name="run">
<j2seproject1:java>

```

```

<customize>
<arg line="${application.args}"/>
</customize>
</j2seproject1:java>
</target>
<target name="-do-not-recompile">
<property name="javac.includes.binary" value=""/>
</target>
<target depends="init,compile-single" name="run-single">
<fail unless="run.class">Must select one file in the IDE or set
run.class</fail>
<j2seproject1:java classname="${run.class}"/>
</target>
<target depends="init,compile-test-single" name="run-test-with-main">
<fail unless="run.class">Must select one file in the IDE or set
run.class</fail>
<j2seproject1:java classname="${run.class}" classpath="${run.test.classpath}"
/>
</target>
<!--

=====
DEBUGGING SECTION
=====

-->
<target depends="init" if="netbeans.home" name="-debug-start-debugger">
<j2seproject1:nbjpdastart name="${debug.class}"/>
</target>
<target depends="init" if="netbeans.home" name="-debug-start-debugger-main-
test">
<j2seproject1:nbjpdastart classpath="${debug.test.classpath}" name="${debug.c
lass}"/>
</target>
<target depends="init,compile" name="-debug-start-debuggee">
<j2seproject3:debug>
<customizeDebuggee>
<arg line="${application.args}"/>
</customizeDebuggee>
</j2seproject3:debug>
</target>
<target depends="init,compile,-debug-start-debugger,-debug-start-
debuggee" description="Debug project in
IDE." if="netbeans.home" name="debug"/>
<target depends="init" if="netbeans.home" name="-debug-start-debugger-
stepinto">
<j2seproject1:nbjpdastart stopclassname="${main.class}"/>
</target>
<target depends="init,compile,-debug-start-debugger-stepinto,-debug-start-
debuggee" if="netbeans.home" name="debug-stepinto"/>
<target depends="init,compile-single" if="netbeans.home" name="-debug-start-
debuggee-single">
<fail unless="debug.class">Must select one file in the IDE or set
debug.class</fail>
<j2seproject3:debug classname="${debug.class}"/>
</target>
<target depends="init,compile-single,-debug-start-debugger,-debug-start-
debuggee-single" if="netbeans.home" name="debug-single"/>

```



```

<target depends="init,compile-test-single" if="netbeans.home" name="-debug-
start-debuggee-main-test">
<fail unless="debug.class">Must select one file in the IDE or set
debug.class</fail>
<j2seproject3:debug classname="${debug.class}" classpath="${debug.test.classp
ath}"/>
</target>
<target depends="init,compile-test-single,-debug-start-debugger-main-test,-
debug-start-debuggee-main-test" if="netbeans.home" name="debug-test-with-
main"/>
<target depends="init" name="-pre-debug-fix">
<fail unless="fix.includes">Must set fix.includes</fail>
<property name="javac.includes" value="${fix.includes}.java"/>
</target>
<target depends="init,-pre-debug-fix,compile-
single" if="netbeans.home" name="-do-debug-fix">
<j2seproject1:nbjpdareload/>
</target>
<target depends="init,-pre-debug-fix,-do-debug-
fix" if="netbeans.home" name="debug-fix"/>
<!--

=====
PROFILING SECTION
=====

-->

<!--
    pre NB7.2 profiler integration
-->
<target depends="profile-init,compile" description="Profile a project in the
IDE." if="profiler.info.jvmargs.agent" name="-profile-pre72">
<fail unless="netbeans.home">This target only works when run from inside the
NetBeans IDE.</fail>
<nbprofiledirect>
<classpath>
<path path="${run.classpath}"/>
</classpath>
</nbprofiledirect>
<profile/>
</target>
<target depends="profile-init,compile-single" description="Profile a selected
class in the IDE." if="profiler.info.jvmargs.agent" name="-profile-single-
pre72">
<fail unless="profile.class">Must select one file in the IDE or set
profile.class</fail>
<fail unless="netbeans.home">This target only works when run from inside the
NetBeans IDE.</fail>
<nbprofiledirect>
<classpath>
<path path="${run.classpath}"/>
</classpath>
</nbprofiledirect>
<profile classname="${profile.class}"/>
</target>
<target depends="profile-init,compile-
single" if="profiler.info.jvmargs.agent" name="-profile-applet-pre72">
<fail unless="netbeans.home">This target only works when run from inside the
NetBeans IDE.</fail>

```

```

<nbprofiledirect>
<classpath>
<path path="${run.classpath}"/>
</classpath>
</nbprofiledirect>
<profile classname="sun.applet.AppletViewer">
<customize>
<arg value="${applet.url}"/>
</customize>
</profile>
</target>
<target depends="-init-macrodef-junit,profile-init,compile-test-
single" if="profiler.info.jvmargs.agent" name="-profile-test-single-pre72">
<fail unless="netbeans.home">This target only works when run from inside the
NetBeans IDE.</fail>
<nbprofiledirect>
<classpath>
<path path="${run.test.classpath}"/>
</classpath>
</nbprofiledirect>
<j2seproject3:junit excludes="${excludes}" includes="${includes}" testinclude
s="${profile.class}" testmethods="">
<customize>
<jvmarg value="-agentlib:jdpw=transport=${debug-
transport},address=${jpda.address}"/>
<env key="${profiler.info.pathvar}" path="${profiler.info.agentpath}:${profil
er.current.path}"/>
<jvmarg value="${profiler.info.jvmargs.agent}"/>
<jvmarg line="${profiler.info.jvmargs}"/>
<classpath>
<path path="${run.test.classpath}"/>
</classpath>
</customize>
</j2seproject3:junit>
</target>
<!--
                end of pre NB72 profiling section
-->
<target if="netbeans.home" name="-profile-check">
<condition property="profiler.configured">
<or>
<contains casesensitive="true" string="${run.jvmargs.ide}" substring="-
agentpath:"/>
<contains casesensitive="true" string="${run.jvmargs.ide}" substring="-
javaagent:"/>
</or>
</condition>
</target>
<target depends="-profile-check,-profile-pre72" description="Profile a
project in the
IDE." if="profiler.configured" name="profile" unless="profiler.info.jvmargs.a
gent">
<startprofiler/>
<antcall target="run"/>
</target>

```

```

<target depends="-profile-check,-profile-single-pre72" description="Profile a
selected class in the IDE." if="profiler.configured" name="profile-
single" unless="profiler.info.jvmargs.agent">
<fail unless="run.class">Must select one file in the IDE or set
run.class</fail>
<startprofiler/>
<antcall target="run-single"/>
</target>
<target depends="-profile-test-single-pre72" description="Profile a selected
test in the IDE." name="profile-test-single"/>
<target depends="-profile-check" description="Profile a selected test in the
IDE." if="profiler.configured" name="profile-
test" unless="profiler.info.jvmargs">
<fail unless="test.includes">Must select some files in the IDE or set
test.includes</fail>
<startprofiler/>
<antcall target="test-single"/>
</target>
<target depends="-profile-check" description="Profile a selected class in the
IDE." if="profiler.configured" name="profile-test-with-main">
<fail unless="run.class">Must select one file in the IDE or set
run.class</fail>
<startprofiler/>
<antcall target="run-test-with-main"/>
</target>
<target depends="-profile-check,-profile-applet-
pre72" if="profiler.configured" name="profile-
applet" unless="profiler.info.jvmargs.agent">
<fail unless="applet.url">Must select one file in the IDE or set
applet.url</fail>
<startprofiler/>
<antcall target="run-applet"/>
</target>
<!--
=====
JAVADOC SECTION
=====
-->
<target depends="init" if="have.sources" name="-javadoc-build">
<mkdir dir="${dist.javadoc.dir}"/>
<condition else="" property="javadoc.endorsed.classpath.cmd.line.arg" value="
-J${endorsed.classpath.cmd.line.arg}">
<and>
<isset property="endorsed.classpath.cmd.line.arg"/>
<not>
<equals arg1="${endorsed.classpath.cmd.line.arg}" arg2=""/>
</not>
</and>
</condition>
<condition else="" property="bug5101868workaround" value="*.java">
<matches pattern="1\.[56](\..*)?" string="${java.version}"/>
</condition>
<condition else="" property="javadoc.html5.cmd.line.arg" value="-html5">
<and>
<isset property="javadoc.html5"/>
<available file="${jdk.home}${file.separator}lib${file.separator}jrt-
fs.jar"/>

```

```

</and>
</condition>
<javadoc additionalparam="-J-Dfile.encoding=${file.encoding}
${javadoc.additionalparam}" author="${javadoc.author}" charset="UTF-
8" destdir="${dist.javadoc.dir}" docencoding="UTF-
8" encoding="${javadoc.encoding.used}" failonerror="true" noindex="${javadoc.
noindex}" nonavbar="${javadoc.nonavbar}" notree="${javadoc.notree}" private="
${javadoc.private}" source="${javac.source}" splitindex="${javadoc.splitindex
}" use="${javadoc.use}" useexternalfile="true" version="${javadoc.version}" w
indowtitle="${javadoc.windowtitle}">
<classpath>
<path path="${javac.classpath}"/>
</classpath>
<fileset dir="${src.dir}" excludes="${bug5101868workaround},${excludes}" incl
udes="${includes}">
<filename name="**/*.java"/>
</fileset>
<fileset dir="${build.generated.sources.dir}" erroronmissingdir="false">
<include name="**/*.java"/>
<exclude name="*.java"/>
</fileset>
<arg line="${javadoc.endorsed.classpath.cmd.line.arg}"/>
<arg line="${javadoc.html5.cmd.line.arg}"/>
</javadoc>
<copy todir="${dist.javadoc.dir}">
<fileset dir="${src.dir}" excludes="${excludes}" includes="${includes}">
<filename name="**/doc-files/**"/>
</fileset>
<fileset dir="${build.generated.sources.dir}" erroronmissingdir="false">
<include name="**/doc-files/**"/>
</fileset>
</copy>
</target>
<target depends="init,-javadoc-build" if="netbeans.home" name="-javadoc-
browse" unless="no.javadoc.preview">
<nbbrowse file="${dist.javadoc.dir}/index.html"/>
</target>
<target depends="init,-javadoc-build,-javadoc-browse" description="Build
Javadoc." name="javadoc"/>
<!--
=====
TEST COMPILATION SECTION
=====
-->
<target depends="init,compile" if="have.tests" name="-pre-pre-compile-test">
<mkdir dir="${build.test.classes.dir}"/>
</target>
<target name="-pre-compile-test">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="-init-source-module-
properties" if="named.module.internal" name="-init-test-javac-module-
properties-with-module">
<j2seproject3:modulename property="test.module.name" sourcepath="${test.src.d
ir}"/>

```

```

<condition else="${empty.dir}" property="javac.test.sourcepath" value="${test
.src.dir}">
<and>
<isset property="test.module.name"/>
<length length="0" string="${test.module.name}" when="greater"/>
</and>
</condition>
<condition else="--patch-module ${module.name}=${test.src.dir} --add-reads
${module.name}=ALL-UNNAMED" property="javac.test.compilerargs" value="--add-
reads ${test.module.name}=ALL-UNNAMED">
<and>
<isset property="test.module.name"/>
<length length="0" string="${test.module.name}" when="greater"/>
</and>
</condition>
</target>
<target depends="-init-source-module-
properties" if="named.module.internal" name="-init-test-run-module-
properties">
<condition else="${module.name}" property="run.test.addexport.source.module.i
nternal" value="${test.module.name}">
<and>
<isset property="test.module.name"/>
<length length="0" string="${test.module.name}" when="greater"/>
</and>
</condition>
<fileset dir="${build.test.classes.dir}" id="run.test.packages.internal" incl
udes="**/*.class"/>
<property location="${build.test.classes.dir}" name="build.test.classes.dir.a
bs.internal"/>
<pathconvert pathsep=" " property="run.test.addexports.internal" refid="run.t
est.packages.internal">
<chainedmapper>
<regexpmapper from="^(.*)\Q${file.separator}\E.*\.class$$" to="\1"/>
<filtermapper>
<uniqfilter/>
<replacestring from="${build.test.classes.dir.abs.internal}" to=""/>
</filtermapper>
<cutdirsmapper dirs="1"/>
<packagemapper from="*" to="--add-exports
${run.test.addexport.source.module.internal}/*=ALL-UNNAMED"/>
</chainedmapper>
</pathconvert>
<condition else="--patch-module ${module.name}=${build.test.classes.dir} --
add-modules ${module.name} --add-reads ${module.name}=ALL-UNNAMED
${run.test.addexports.internal}" property="run.test.jvmargs" value="--add-
modules ${test.module.name} --add-reads ${test.module.name}=ALL-UNNAMED
${run.test.addexports.internal}">
<and>
<isset property="test.module.name"/>
<length length="0" string="${test.module.name}" when="greater"/>
</and>
</condition>
</target>
<target depends="-init-source-module-properties" name="-init-test-module-
properties-without-module" unless="named.module.internal">
<property name="javac.test.sourcepath" value="${empty.dir}"/>

```

```

<property name="javac.test.compilerargs" value=""/>
<property name="run.test.jvmargs" value=""/>
</target>
<target depends="-init-test-javac-module-properties-with-module,-init-test-
module-properties-without-module" name="-init-test-module-properties"/>
<target if="do.depend.true" name="-compile-test-depend">
<j2seproject3:depend classpath="${javac.test.classpath}" destdir="${build.test.
classes.dir}" srcdir="${test.src.dir}"/>
</target>
<target depends="init,deps-jar,compile,-init-test-module-properties,-pre-pre-
compile-test,-pre-compile-test,-compile-test-depend" if="have.tests" name="-
do-compile-test">
<j2seproject3:javac apgeneratedsrcdir="${build.test.classes.dir}" classpath="
${javac.test.classpath}" debug="true" destdir="${build.test.classes.dir}" mod
ulepath="${javac.test.modulepath}" processorpath="${javac.test.processorpath}
" sourcepath="${javac.test.sourcepath}" srcdir="${test.src.dir}">
<customize>
<compilerarg line="${javac.test.compilerargs}"/>
</customize>
</j2seproject3:javac>
<copy todir="${build.test.classes.dir}">
<fileset dir="${test.src.dir}" excludes="${build.classes.excludes},${excludes
}" includes="${includes}"/>
</copy>
</target>
<target name="-post-compile-test">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="init,compile,-pre-pre-compile-test,-pre-compile-test,-do-
compile-test,-post-compile-test" name="compile-test"/>
<target name="-pre-compile-test-single">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="init,deps-jar,compile,-init-test-module-properties,-pre-pre-
compile-test,-pre-compile-test-single" if="have.tests" name="-do-compile-
test-single">
<fail unless="javac.includes">Must select some files in the IDE or set
javac.includes</fail>
<j2seproject3:force-recompile destdir="${build.test.classes.dir}"/>
<j2seproject3:javac apgeneratedsrcdir="${build.test.classes.dir}" classpath="
${javac.test.classpath}" debug="true" destdir="${build.test.classes.dir}" exc
ludes="" includes="${javac.includes}, module-
info.java" modulepath="${javac.test.modulepath}" processorpath="${javac.test.
processorpath}" sourcepath="${test.src.dir}" srcdir="${test.src.dir}">
<customize>
<compilerarg line="${javac.test.compilerargs}"/>
</customize>
</j2seproject3:javac>
<copy todir="${build.test.classes.dir}">
<fileset dir="${test.src.dir}" excludes="${build.classes.excludes},${excludes
}" includes="${includes}"/>
</copy>
</target>
<target name="-post-compile-test-single">
<!-- Empty placeholder for easier customization. -->

```

```

<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="init,compile,-pre-pre-compile-test,-pre-compile-test-
single,-do-compile-test-single,-post-compile-test-single" name="compile-test-
single"/>
<!--

=====
TEST EXECUTION SECTION
=====

-->
<target depends="init" if="have.tests" name="-pre-test-run">
<mkdir dir="${build.test.results.dir}"/>
</target>
<target depends="init,compile-test,-init-test-run-module-properties,-pre-
test-run" if="have.tests" name="-do-test-run">
<j2seproject3:test includes="${includes}" testincludes="**/*Test.java"/>
</target>
<target depends="init,compile-test,-pre-test-run,-do-test-
run" if="have.tests" name="-post-test-run">
<fail if="tests.failed" unless="ignore.failing.tests">Some tests failed; see
details above.</fail>
</target>
<target depends="init" if="have.tests" name="test-report"/>
<target depends="init" if="netbeans.home+have.tests" name="-test-browse"/>
<target depends="init,compile-test,-pre-test-run,-do-test-run,test-report,-
post-test-run,-test-browse" description="Run unit tests." name="test"/>
<target depends="init" if="have.tests" name="-pre-test-run-single">
<mkdir dir="${build.test.results.dir}"/>
</target>
<target depends="init,compile-test-single,-init-test-run-module-properties,-
pre-test-run-single" if="have.tests" name="-do-test-run-single">
<fail unless="test.includes">Must select some files in the IDE or set
test.includes</fail>
<j2seproject3:test excludes="" includes="${test.includes}" testincludes="${te
st.includes}"/>
</target>
<target depends="init,compile-test-single,-pre-test-run-single,-do-test-run-
single" if="have.tests" name="-post-test-run-single">
<fail if="tests.failed" unless="ignore.failing.tests">Some tests failed; see
details above.</fail>
</target>
<target depends="init,compile-test-single,-init-test-run-module-properties,-
pre-test-run-single,-do-test-run-single,-post-test-run-
single" description="Run single unit test." name="test-single"/>
<target depends="init,compile-test-single,-pre-test-run-
single" if="have.tests" name="-do-test-run-single-method">
<fail unless="test.class">Must select some files in the IDE or set
test.class</fail>
<fail unless="test.method">Must select some method in the IDE or set
test.method</fail>
<j2seproject3:test excludes="" includes="{javac.includes}" testincludes="{t
est.class}" testmethods="{test.method}"/>
</target>
<target depends="init,compile-test-single,-pre-test-run-single,-do-test-run-
single-method" if="have.tests" name="-post-test-run-single-method">
<fail if="tests.failed" unless="ignore.failing.tests">Some tests failed; see
details above.</fail>

```

```

</target>
<target depends="init,compile-test-single,-init-test-run-module-properties,-
pre-test-run-single,-do-test-run-single-method,-post-test-run-single-
method" description="Run single unit test." name="test-single-method"/>
<!--

=====
TEST DEBUGGING SECTION
=====

-->
<target depends="init,compile-test-single,-pre-test-run-
single" if="have.tests" name="-debug-start-debuggee-test">
<fail unless="test.class">Must select one file in the IDE or set
test.class</fail>
<j2seproject3:test-
debug excludes="" includes="${javac.includes}" testClass="${test.class}" test
includes="${javac.includes}"/>
</target>
<target depends="init,compile-test-single,-pre-test-run-
single" if="have.tests" name="-debug-start-debuggee-test-method">
<fail unless="test.class">Must select one file in the IDE or set
test.class</fail>
<fail unless="test.method">Must select some method in the IDE or set
test.method</fail>
<j2seproject3:test-
debug excludes="" includes="${javac.includes}" testClass="${test.class}" test
Method="${test.method}" testincludes="${test.class}" testmethods="${test.meth
od}"/>
</target>
<target depends="init,compile-test" if="netbeans.home+have.tests" name="-
debug-start-debugger-test">
<j2seproject1:nbjpdastart classpath="${debug.test.classpath}" name="${test.cl
ass}"/>
</target>
<target depends="init,compile-test-single,-init-test-run-module-properties,-
debug-start-debugger-test,-debug-start-debuggee-test" name="debug-test"/>
<target depends="init,compile-test-single,-init-test-run-module-properties,-
debug-start-debugger-test,-debug-start-debuggee-test-method" name="debug-
test-method"/>
<target depends="debug-test-method" name="debug-single-method"/>
<target depends="init,-pre-debug-fix,compile-test-
single" if="netbeans.home" name="-do-debug-fix-test">
<j2seproject1:nbjpdareload dir="${build.test.classes.dir}"/>
</target>
<target depends="init,-pre-debug-fix,-do-debug-fix-
test" if="netbeans.home" name="debug-fix-test"/>
<!--

=====
APPLET EXECUTION SECTION
=====

-->
<target depends="init,compile-single" name="run-applet">
<fail unless="applet.url">Must select one file in the IDE or set
applet.url</fail>
<j2seproject1:java classname="sun.applet.AppletViewer">
<customize>
<arg value="${applet.url}"/>
</customize>

```



```

</j2seproject1:java>
</target>
<!--
=====
APPLET DEBUGGING SECTION
=====
-->
<target depends="init,compile-single" if="netbeans.home" name="-debug-start-
debuggee-applet">
<fail unless="applet.url">Must select one file in the IDE or set
applet.url</fail>
<j2seproject3:debug classname="sun.applet.AppletViewer">
<customizeDebuggee>
<arg value="${applet.url}"/>
</customizeDebuggee>
</j2seproject3:debug>
</target>
<target depends="init,compile-single,-debug-start-debugger,-debug-start-
debuggee-applet" if="netbeans.home" name="debug-applet"/>
<!--
=====
CLEANUP SECTION
=====
-->
<target name="-deps-clean-init" unless="built-clean.properties">
<property location="${build.dir}/built-clean.properties" name="built-
clean.properties"/>
<delete file="${built-clean.properties}" quiet="true"/>
</target>
<target if="already.built.clean.${basedir}" name="-warn-already-built-clean">
<echo level="warn" message="Cycle detected: tugas5 was already built"/>
</target>
<target depends="init,-deps-clean-init" name="deps-clean" unless="no.deps">
<mkdir dir="${build.dir}"/>
<touch file="${built-clean.properties}" verbose="false"/>
<property file="${built-clean.properties}" prefix="already.built.clean."/>
<antcall target="-warn-already-built-clean"/>
<propertyfile file="${built-clean.properties}">
<entry key="${basedir}" value=""/>
</propertyfile>
</target>
<target depends="init" name="-do-clean">
<delete dir="${build.dir}"/>
<delete dir="${dist.jlink.output}"/>
<delete dir="${dist.dir}" followsymlinks="false" includeemptydirs="true"/>
</target>
<target name="-post-clean">
<!-- Empty placeholder for easier customization. -->
<!-- You can override this target in the ../build.xml file. -->
</target>
<target depends="init,deps-clean,-do-clean,-post-clean" description="Clean
build products." name="clean"/>
<target name="-check-call-dep">
<property file="${call.built.properties}" prefix="already.built."/>
<condition property="should.call.dep">
<and>
<not>

```

```
<isset property="already.built.${call.subproject}"/>
</not>
<available file="${call.script}"/>
</and>
</condition>
</target>
<target depends="-check-call-dep" if="should.call.dep" name="-maybe-call-
dep">
<ant antfile="${call.script}" inheritall="false" target="${call.target}">
<propertyset>
<propertyref prefix="transfer."/>
<mapper from="transfer.*" to="*" type="glob"/>
</propertyset>
</ant>
</target>
</project>
```

