

MyMath.java:

```
package math;

public class MyMath {
    public int multi(int number1, int number2) {
        return number1 * number2;
    }
}
```

Main.java:

```
package test;

import math.MyMath;

public class Main {
    public static void main(String[] args) {
        MyMath math = new MyMath();
        System.out.println("Result is: " + math.multi(5, 10));
    }
}
```

build.xml:

```
<?xml version="1.0"?>
<project name="Ant-Test" default="main" basedir=".">
    <!-- Sets variables which can later be used. -->
    <!-- The value of a property is accessed via ${} -->
    <property name="src.dir" location="src" />
    <property name="build.dir" location="bin" />
    <property name="dist.dir" location="dist" />
    <property name="docs.dir" location="docs" />

    <!-- Deletes the existing build, docs and dist directory-->
    <target name="clean">
        <delete dir="${build.dir}" />
        <delete dir="${docs.dir}" />
        <delete dir="${dist.dir}" />
    </target>

    <!-- Creates the build, docs and dist directory-->
    <target name="mkdir">
        <mkdir dir="${build.dir}" />
        <mkdir dir="${docs.dir}" />
        <mkdir dir="${dist.dir}" />
    </target>

    <!-- Compiles the java code (including the usage of library for JUnit -->
    <target name="compile" depends="clean, mkdir">
        <javac srcdir="${src.dir}" destdir="${build.dir}">
        </javac>
    </target>
</project>
```

```
</target>
```

```
<!-- Creates Javadoc -->
```

```
<target name="docs" depends="compile">
```

```
  <javadoc packagenames="src" sourcepath="${src.dir}" destdir="${docs.dir}">
```

```
    <!-- Define which files / directory should get included, we include all -->
```

```
    <fileset dir="${src.dir}">
```

```
      <include name="**" />
```

```
    </fileset>
```

```
  </javadoc>
```

```
</target>
```

```
<!--Creates the deployable jar file -->
```

```
<target name="jar" depends="compile">
```

```
  <jar destfile="${dist.dir}/de.vogella.build.test.ant.jar" basedir="${build.dir}">
```

```
    <manifest>
```

```
      <attribute name="Main-Class" value="test.Main" />
```

```
    </manifest>
```

```
  </jar>
```

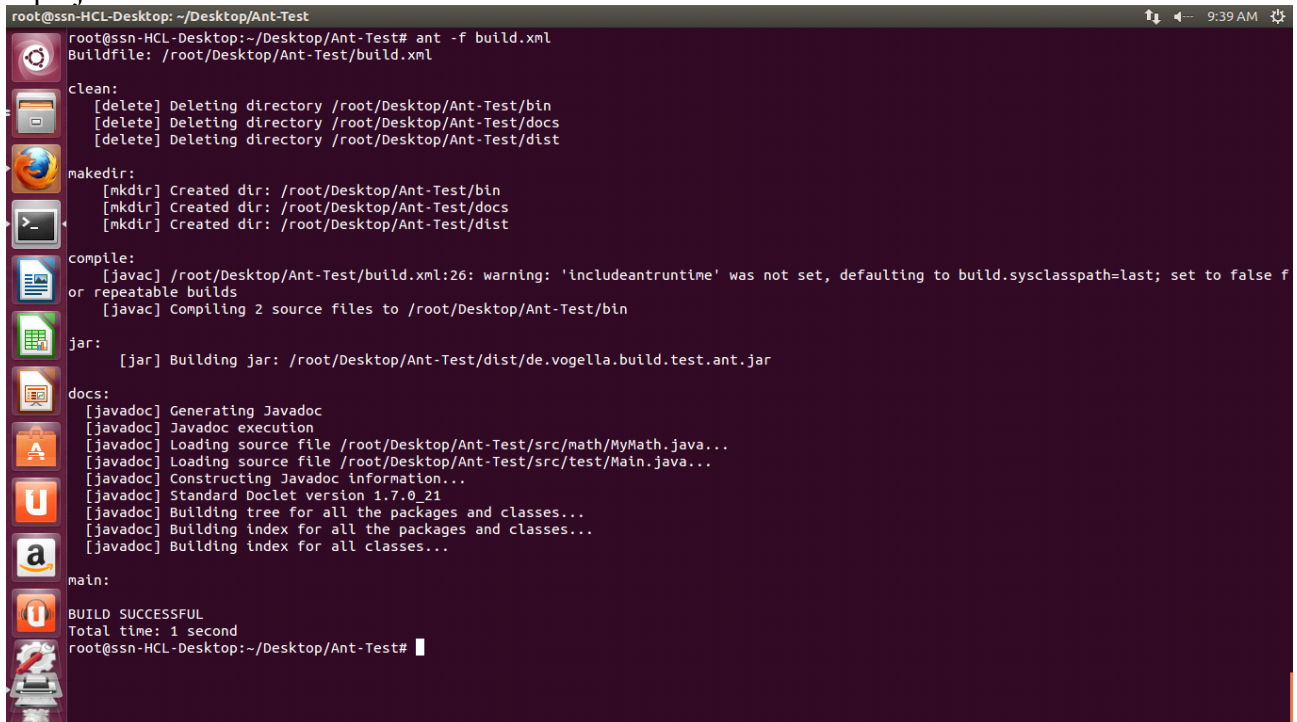
```
</target>
```

```
<target name="main" depends="compile, jar, docs">
```

```
  <description>Main target</description>
```

```
</target>
```

```
</project>
```

A terminal window titled 'root@ssn-HCL-Desktop: ~/Desktop/Ant-Test' showing the execution of 'ant -f build.xml'. The output displays the following steps: 'clean' (deleting directories), 'makedir' (creating bin, docs, and dist directories), 'compile' (compiling 2 source files with a warning about 'includeantruntime'), 'jar' (building the jar file), and 'docs' (generating Javadoc). The process concludes with 'BUILD SUCCESSFUL' and a total time of 1 second.

```
root@ssn-HCL-Desktop: ~/Desktop/Ant-Test
root@ssn-HCL-Desktop:~/Desktop/Ant-Test# ant -f build.xml
Buildfile: /root/Desktop/Ant-Test/build.xml

clean:
[delete] Deleting directory /root/Desktop/Ant-Test/bin
[delete] Deleting directory /root/Desktop/Ant-Test/docs
[delete] Deleting directory /root/Desktop/Ant-Test/dist

makedir:
[mkdir] Created dir: /root/Desktop/Ant-Test/bin
[mkdir] Created dir: /root/Desktop/Ant-Test/docs
[mkdir] Created dir: /root/Desktop/Ant-Test/dist

compile:
[javac] /root/Desktop/Ant-Test/build.xml:26: warning: 'includeantruntime' was not set, defaulting to build.sysclasspath=last; set to false f
or repeatable builds
[javac] Compiling 2 source files to /root/Desktop/Ant-Test/bin

jar:
[jar] Building jar: /root/Desktop/Ant-Test/dist/de.vogella.build.test.ant.jar

docs:
[javadoc] Generating Javadoc
[javadoc] Javadoc execution
[javadoc] Loading source file /root/Desktop/Ant-Test/src/math/MyMath.java...
[javadoc] Loading source file /root/Desktop/Ant-Test/src/test/Main.java...
[javadoc] Constructing Javadoc information...
[javadoc] Standard Doclet version 1.7.0_21
[javadoc] Building tree for all the packages and classes...
[javadoc] Building index for all the packages and classes...
[javadoc] Building index for all classes...

main:
BUILD SUCCESSFUL
Total time: 1 second
root@ssn-HCL-Desktop:~/Desktop/Ant-Test#
```