Домашнее задание по теме «Работа с Maven. JAR»

Формулировка задания:

- 1. Преобразовать проект для Промежуточной аттестации 1 в mavenпроект.
 - Создаем pom.xml файл в проекте с домашним заданием.
 - Пишем/изменяем теги заголовка groupId, artifactId.
 - Добавить зависимости
 - Добавляем тег <build>. Указываем в нем где находятся ресурсы, имя результирующего jar файла.
 - 2. Настроить зависимости для проекта в dependencies Maven.
- 3. Собрать исполняемый архив средствами Maven со сторонними библиотеками (JUnit и других библиотек, которые включены в проект Промежуточной аттестации 1).
- 4. Обратить внимание на MANIFEST-файл и его настройку с классами сторонней библиотеки.
- 5. Отдельно показать в отчёте (сделать скрины) собранный JAR файл через Maven.

```
<?xml version="1.0" encoding="UTF-8"?>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
   <modelVersion>4.0.0</modelVersion>
   <groupId>ru.klgd.javadev
   <artifactId>homework15</artifactId>
   <version>1.0-SNAPSHOT</version>
   properties>
      <maven.compiler.source>21</maven.compiler.source>
      <maven.compiler.target>21</maven.compiler.target>
      </properties>
   <dependencies>
      <dependency>
          <groupId>org.projectlombok</groupId>
          <artifactId>lombok</artifactId>
          <version>1.18.42
      </dependency>
      <dependency>
          <groupId>org.junit.jupiter</groupId>
          <artifactId>junit-jupiter-api</artifactId>
          <version>5.13.4
```

<scope>test</scope>

"C:\Program Files\Java\jdk-21.0.2\bin\java.exe" -Dmaven.multiModuleProjectDirectory=D:\JavaProject\JavaDevHomeworks\src\homeworks\homeworks15 -Djansi

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons-tanq3/3.12.0/commons-tanq3-3.12.0.jar (587 kB at 1.4 M8/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.5.1/plexus-utils-3.5.1.jar (269 kB at 567 kB/s)

[INFO] copying 0 resource from srckmain/resources to target/classes

[INFO]

[INFO] --- compiler:3.13.0:compile (default-compile) 0 homework15 ---

Downloading from central: https://repo.maven.apache.org/maven2/org/spache/maven/shared/maven-shared-utils/3.4.2/maven-shared-utils-3.4.2.jar

Downloaded from central: https://repo.maven.apache.org/maven2/org/spache/maven/shared/maven-shared-utils/3.4.2/maven-shared-utils-3.4.2.jar

Downloading from central: https://repo.maven.apache.org/maven2/org/spache/maven/shared/maven-shared-utils/3.4.2/maven-shared-utils-3.4.2.jar

Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-java/1.2.0/plexus-java-1.2.0.jar

Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-compiler-api/2.15.0/plexus-compiler-api-2.15.0.jar

Downloading from central: https://repo.maven.apache.org/maven2/org/spache/maven/shared/maven-shared-incremental/i./maven-shared-incremental-1.1.jar (14 kB at 157 kB/s)

Downloading from central: https://repo.maven.apache.org/maven2/org/spache/maven/shared/maven-shared-incremental/i./maven-shared-incremental-1.1.jar (14 kB at 157 kB/s)

Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-compiler-manager/2.15.0/plexus-compiler-manager-2.15.0.jar

Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-compiler-manager/2.15.0/plexus-compiler-manager-2.15.0.jar (29 kB at 248 kB/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-compiler-manager/2.15.0/plexus-compiler-manager-2.15.0.jar (29 kB at 248 kB/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-compi
```

https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/3.3.1/maven-filtering-3.3.1.jar

```
Downloaded From central. https://repo.maven.apache.org/maven2/org/codehaus/plexus-utils/4.0.0/plexus-utils-4.0.0.jar (192 k8 at 743 k8/s)

[INFO] Recompiling the module because of changed source code.

[INFO] Annotation processing is enabled because one or more processors were found on the class path. A future release of javac may disable annotation processing unless at least one processor is specified by name (-processor), or a search path is specified (-processor-path, -processor-module-path), or annotation processing is enabled explicitly (-procionly, -prociful).

Use -Nint:-options to suppress this message.

Use -procinent to disable annotation processing.

[INFO]

[INFO] --- resources:3.3.litestResources (default-testResources) @ homework15 ---

[INFO] skip non existing resourceDirectory D:\JavaProject\JavaDevHomeworks\src\homeworks\homework15\src\test\resources

[INFO] --- compiler:3.13.0:testCompile (default-testCompile) @ homework15 ---

[INFO] --- compiling the module because of changed dependency.

[INFO] --- surefire:3.2.5:test (default-test) @ homework15 ---

Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-common/3.2.5/maven-surefire-common-3.2.5.jar

Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-api/3.2.5/surefire-api-3.2.5.jar

Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-loquer-api/3.2.5/surefire-api-3.2.5.jar

Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-botter/3.2.5/surefire-entensions-api-3.2.5.jar

Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-botter/3.2.5/surefire-entensions-api-3.2.5.jar

Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-botter/3.2.5/surefire-entensions-api-3.2.5.jar
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```
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-logger-api3.2.5/surefire-logger-api3.2.5.jar (14 k8 at 143 k8/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/eclipse/sether/sether-api1.0.0.v20140518/aether-api-1.0.0.v20140518.jar

Downloading from central: https://repo.maven.apache.org/maven2/org/eclipse/sether/sether-api1.0.0.v20140518/aether-uti1-1.0.0.v20140518.jar

Downloaded from central: https://repo.maven.apache.org/maven2/org/eclipse/sether/sether-uti1/1.0.0.v20140518/sether-uti1-1.0.0.v20140518.jar

Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-extensions-spi3.2.5/surefire-extensions-spi-3.2.5.jar (8.2 k8 at 80 k8/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-api3.2.5/surefire-api-3.2.5.jar (171 k8 at 1.5 k8/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-api3.2.5/surefire-api-3.2.5.jar (171 k8 at 1.5 k8/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-api3.2.5/surefire-api-3.2.5.jar (171 k8 at 1.5 k8/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-shared-utils/3.2.5/surefire-shared-utils-3.2.5.jar

Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-shared-utils/3.2.5/surefire-shared-utils-3.2.5.jar (18 k8 at 612 k8/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-booter/3.2.5/surefire-shared-utils-3.2.5.jar (18 k8 at 612 k8/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/sether/sether-api/1.0.0.v20140518/sether-util-1.0.0.v20140518.jar (146 k8 at 626 k8/s)

Downloaded from central: https://repo.maven.apache.org/maven2/org/spache/maven/surefire/surefire-shared-utils/3.2.5/surefire-shared-utils-3.2.5.jar (2.4 k8 at 4.2 k8/s)

Downloaded from central: https:
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```
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/4.9.2/plexus-archiver-4.9.2.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/4.9.2/plexus-archiver-4.9.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-lo/3.4.2/plexus-io-3.4.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-lo/3.4.2/plexus-io-3.4.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons-io/2.16.1/commons-io-2.16.1.jar (509 KB at 2.2 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons-compress/1.26.1.jar (509 KB at 2.2 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons-compress/1.26.1.jar (709 KB at 2.2 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-loading-io-3.4.2.jar (79 KB at 103 KB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/mons-codec/commons-codec/1.16.1/commons-codec-1.16.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.16.1/commons-codec-1.16.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.16.1/commons-codec-1.16.1.jar
Downloading from central: https://repo.maven.apache.org/maven2/com/fuskani/xx/1.9/xx-1.9-jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/ig80/snappy/snappy/8.4/snappy-0.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/doehaus/plexus/plexus-interpolation/1.27/plexus-interpolation-1.27.jar (86 KB at 166 KB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/doehaus/plexus/plexus-interpolation-1.5.5-11.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interpolation-1.5.5-11.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/
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https://repo.maven.apache.org/maven2/org/apache/maven/maven-archiver/3.6.2/maven-archiver-3.6.2.jar

[INFO] -----

[INFO] Finished at: 2025-10-03T23:43:48+02:00 [INFO] ------

