1) Look up java plugin documentation. Make changes in manifest to make it executable with correct class. When run using java -jar JAR\_NAME\_HERE the output should be text "Hello World" on the console.

```
ttn@ttn:libs (master)$ java -jar GradleAssignment-1.0.jar
Hello World!
ttn@ttn:libs (master)$ [
```

2) look up idea plugin. make changes in build.gradle so that the sources of src/main/java as well as src/main/java2 are taken as sources. Ensure that when you make JAR file class files in both are added to the JAR. This will teach you how projects with non-conventional structure can be used with gradle.

```
ttn@ttn:libs (master)$ java -jar GradleAssignment-1.0.jar
Hello World!
Java 1 class method
Java 2 class method
```

3) add 2 files file1.xml and file1.txt in src/main/resources manually. make changes so that when creating jar only file1.xml is added to the jar.

Output as per 'before excuding' and 'after excluding':

```
ttn@ttn:libs (master)$ jar tf GradleAssignment-1.0.jar
META-INF/
META-INF/MANIFEST.MF
Java1.class
Application.class
Java2.class
File1.xml
File1.txt
ttn@ttn:libs (master)$ jar tf GradleAssignment-1.0.jar
META-INF/
META-INF/MANIFEST.MF
Java1.class
Application.class
Java2.class
UFile1.xml
ttn@ttn:libs (master)$
```

4) find how to what is an uberjar. Make changes so you can use commons lang3 StringUtil in your jar. Make this uber jar executable. The output should be text but that should be using the StringUtils class of commons lang3

```
ttn@ttn:libs (master)$ java -jar GradleAssignment-1.0.jar
Hello World!
Java 1 class method
Java 2 class method
UolleH
Ittn@ttn:libs (master)$
```

5) Find a maven repository and add it as a repository. You can use bintray, jcenter

Done in build.gradle.

6) Write a task in file "mytasks.gradle" and use it in your build.gradle

```
ttn@ttn:GradleAssignment (master)$ gradle myTask

> Configure project:
I am a task from mytasks.gradle file

Deprecated Gradle features were used in this build, making it incompatible with Gradle 5.0.

Use '--warning-mode all' to show the individual deprecation warnings.

See https://docs.gradle.org/4.10.2/userguide/command_line_interface.html#sec:command_line_warnings
```

Resources:

https://www.baeldung.com/gradle-fat-jar