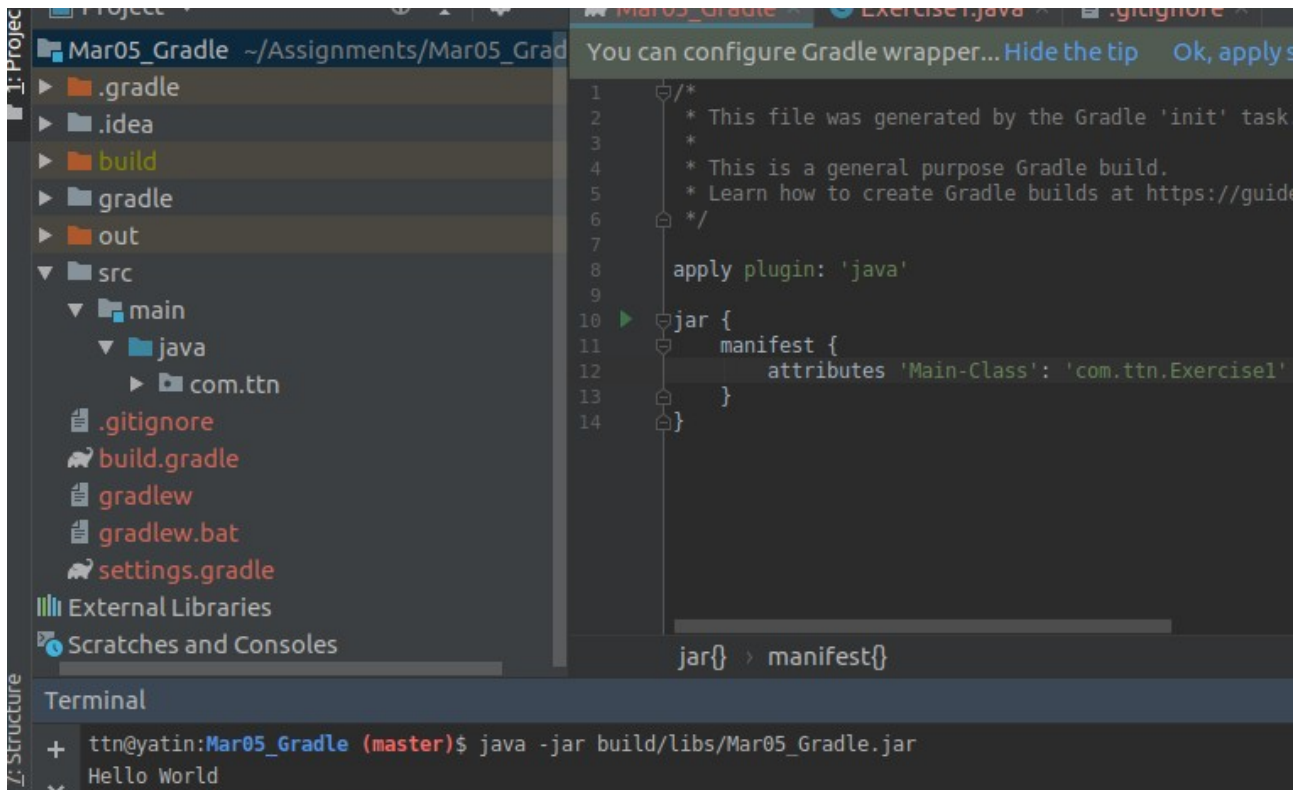
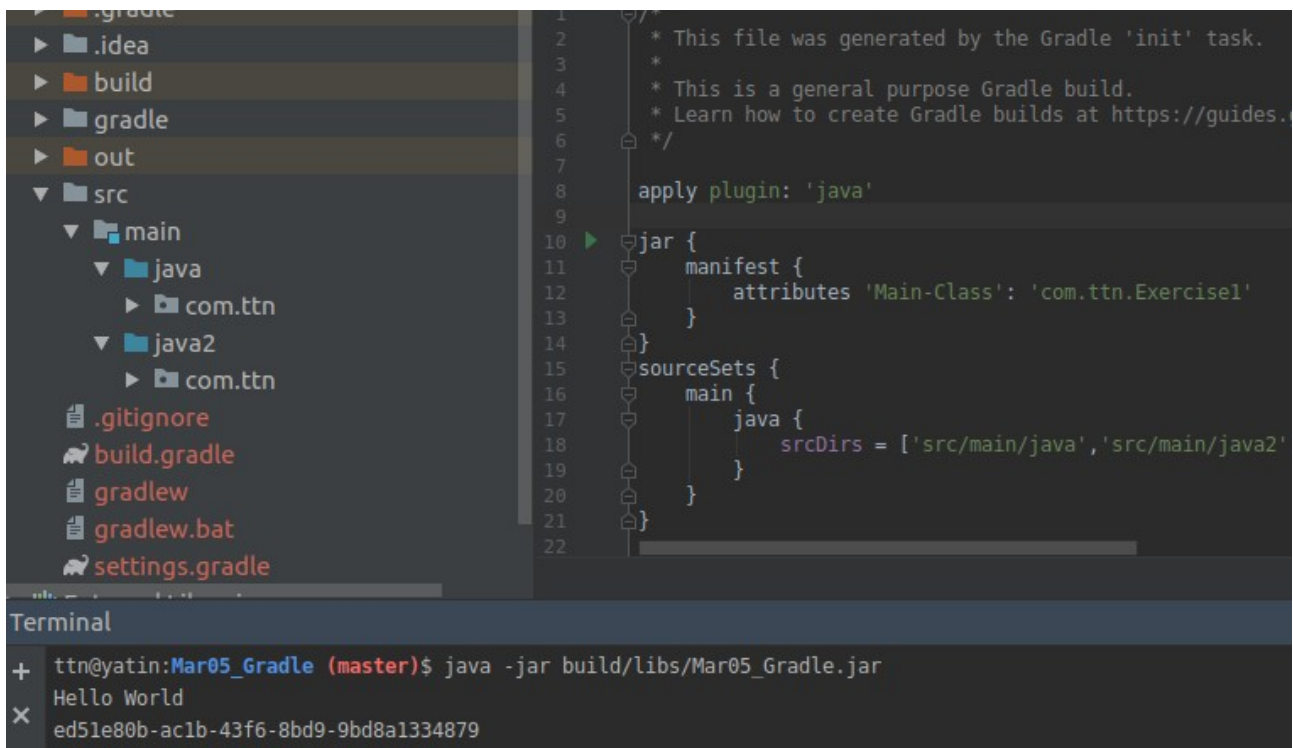


Exercise

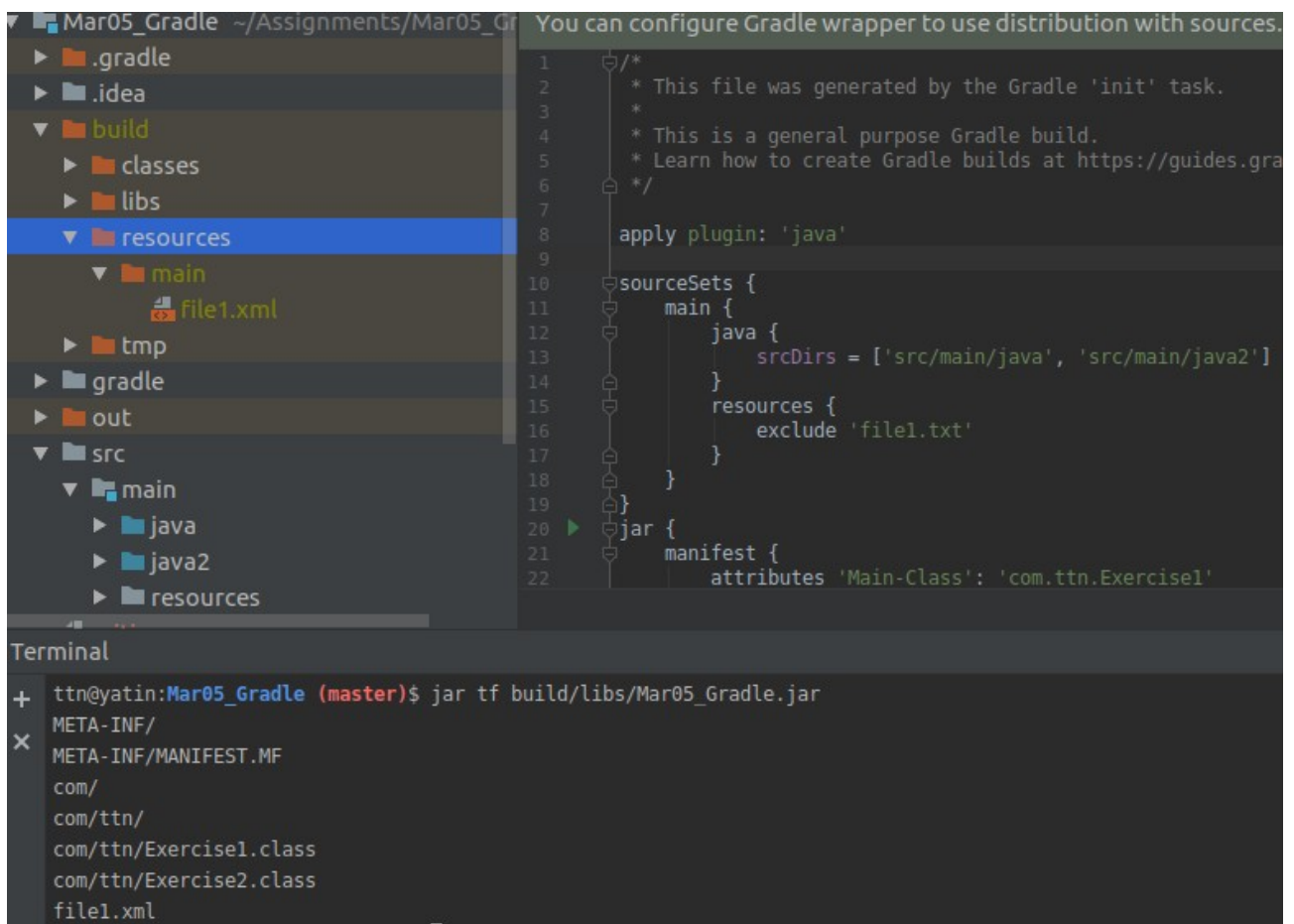
1) Look up java plugin documentation. Make changes in manifest to make it executable with correct class. When run using `java -jar JAR_NAME_HERE` the output should be text "Hello World" on the console.



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.



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.



```
1  /*
2  * This file was generated by the Gradle 'init' task.
3  *
4  * This is a general purpose Gradle build.
5  * Learn how to create Gradle builds at https://guides.gradle.org/creating-new-gradle-build/
6  */
7
8  apply plugin: 'java'
9
10 sourceSets {
11     main {
12         java {
13             srcDirs = ['src/main/java', 'src/main/java2']
14         }
15         resources {
16             exclude 'file1.txt'
17         }
18     }
19 }
20 jar {
21     manifest {
22         attributes 'Main-Class': 'com.ttn.Exercise1'

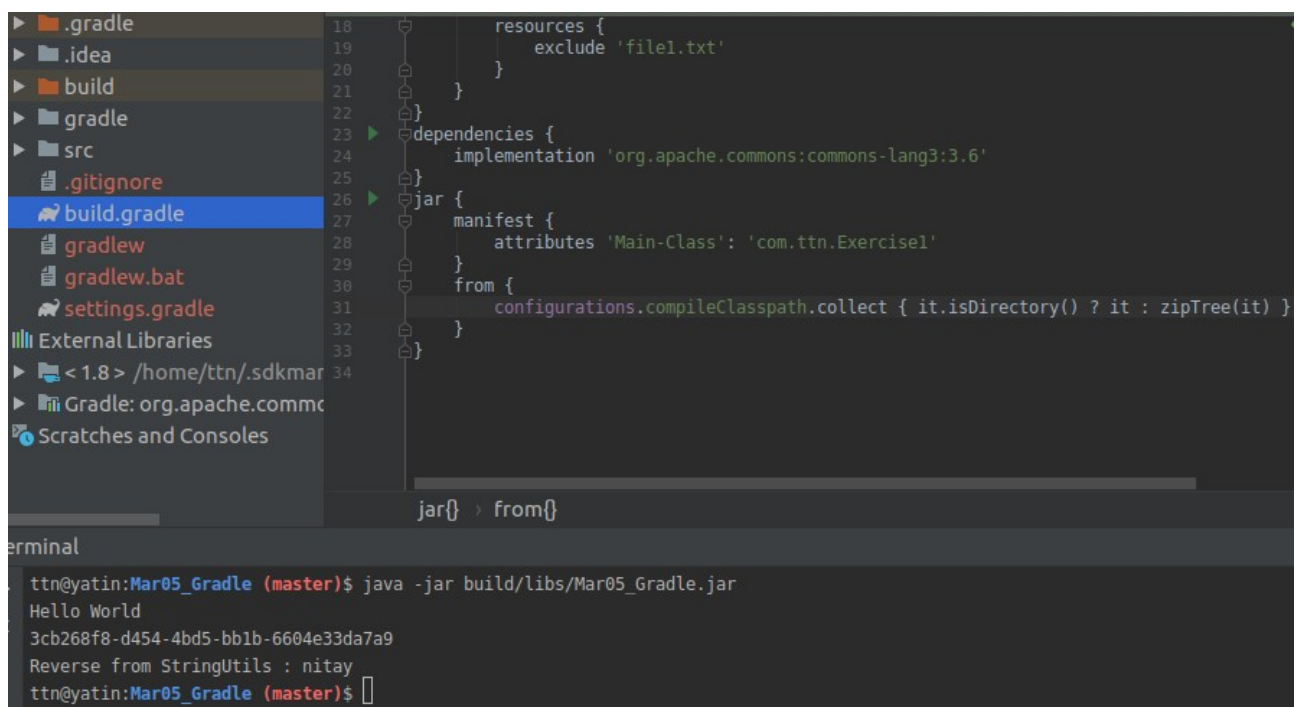
Terminal



```
ttn@yatin:Mar05_Gradle (master)$ jar tf build/libs/Mar05_Gradle.jar
META-INF/
META-INF/MANIFEST.MF
com/
com/ttn/
com/ttn/Exercise1.class
com/ttn/Exercise2.class
file1.xml
```


```

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 StringUtil class of commons lang3



```
18 resources {
19     exclude 'file1.txt'
20 }
21 }
22 }
23 dependencies {
24     implementation 'org.apache.commons:commons-lang3:3.6'
25 }
26 jar {
27     manifest {
28         attributes 'Main-Class': 'com.ttn.Exercise1'
29     }
30     from {
31         configurations.compileClasspath.collect { it.isDirectory() ? it : zipTree(it) }
32     }
33 }
34 }
```

Terminal

```
ttn@yatin:Mar05_Gradle (master)$ java -jar build/libs/Mar05_Gradle.jar
Hello World
3cb268f8-d454-4bd5-bb1b-6604e33da7a9
Reverse from StringUtil : nitay
ttn@yatin:Mar05_Gradle (master)$
```

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

```
* Learn how to create Gradle builds at http://www.gradle.org
*/
repositories {
    maven {
        url 'http://jcenter.bintray.com/'
    }
}

apply plugin: 'java'
```

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

