### **GRADLE ASSIGNMENT**

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.

https://docs.gradle.org/current/userguide/idea plugin.html

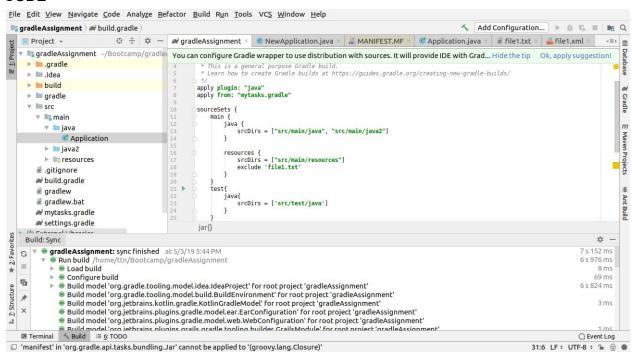
### **OUTPUT**

```
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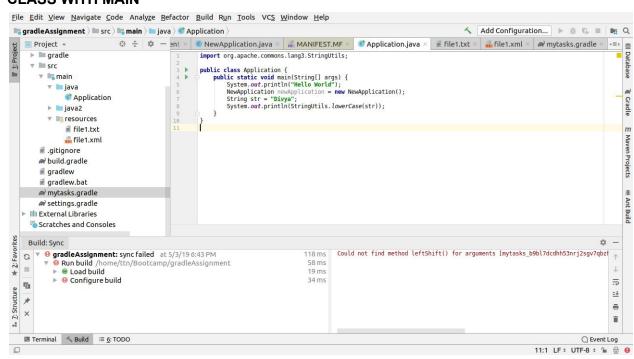
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```

#### CODE

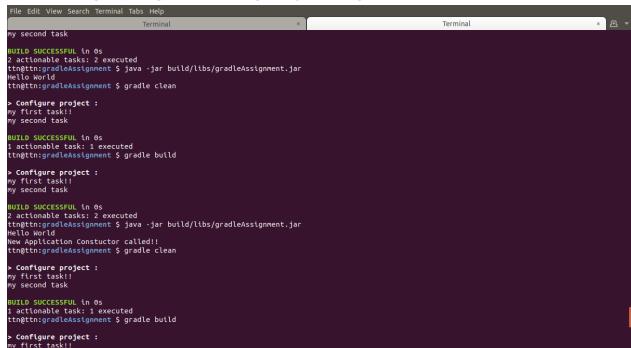


## **CLASS WITH MAIN**

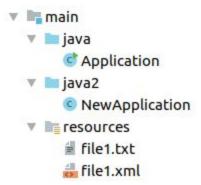


2) look up idea plugin. make changes in build.gradle so that the sources of src/main/java as well as src/main/java2 are taken as sources. Ensure that when you make JAR file class files in both are added to the JAR. This will teach you how projects with non-conventional structure can be used with gradle.

https://docs.gradle.org/current/userguide/java\_plugin.html



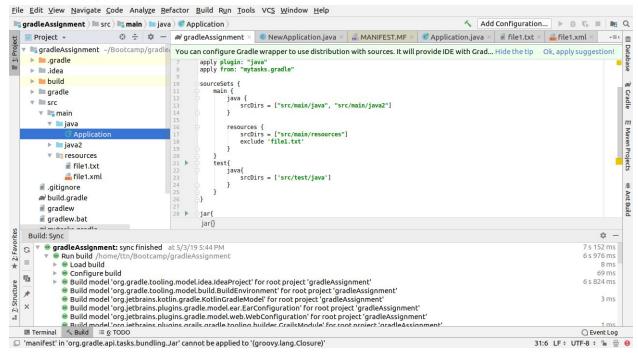
# **FOLDER STRUCTURE**



### **NEW JAVA CLASS INSIDE JAVA2 FOLDER**

```
NewApplication.java × MANIFEST.MF × Application.java × 
public class NewApplication{
NewApplication(){
System.out.println("New Application Constuctor called!!");
}
}
```

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.



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

UILD SUCCESSFUL in 0s actionable task: 1 executed ttn@ttn:gradleAssignment \$ gradle build Configure project : ny first task!! ny second task UILD SUCCESSFUL in Os actionable tasks: 3 executed tn@ttn:gradleAssignment \$ java -jar build/libs/gradleAssignment.jar ew Application Constuctor called!! Divy ttn@ttn:gradleAssignment \$ gradle clean > Configure project : my first task!! my second task BUILD SUCCESSFUL in Os 1 actionable task: 1 executed ttn@ttn:gradleAssignment \$ gradle build > Configure project :
my first task!!
my second task BUILD SUCCESSFUL in Os 3 actionable tasks: 3 executed
ttn@ttn:gradleAssignment \$ java -jar build/libs/gradleAssignment.jar ew Application Constuctor called!! ttn@ttn:gradleAssignment \$

### CODE

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<u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Analy<u>z</u>e <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S</u> <u>W</u>indow <u>H</u>elp
 gradleAssignment ) 📦 build.gradle
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                                                   You can configure Gradle wrapper to use distribution with sources. It will provide IDE with Grad... Hide the tip Ok, apply suggestion!
        w main
                                                         5}
           ▼ lava
                                                        ojar{
    manifest {
        attributes 'Main-Class': 'Application'
        attributes 'Main-Class': 'Application'
                                                                                                                                                                                           ™ Gradle
                 C Application
            ▼ iava2
                 NewApplication
                                                              from {
  configurations.compile.collect { it.isDirectory() ? it : zipTree(it) }
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                 # file1 xml
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    mavenCentral()
         gitignore.
         ₩ build.gradle
                                                              jcenter()
maven {url "https://repo.maven.apache.org/maven2/"}
         gradlew
                                                                                                                                                                                           ₩ Ant Build
         gradlew.bat
                                                         -dependencies{
        compile group: 'org.apache.commons', name: 'commons-lang3', version: '3.8.1'
    ► III External Libraries
      Scratches and Consoles
      Build: Sync
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                                                                                                   Could not find method leftShift() for arguments [mytasks_b9bl7dcdhh53nrj2sgv7qbz
    G

    ⊕ Run build /home/ttn/Bootcamp/gradleAssignment
    ▶ ⊕ Load build

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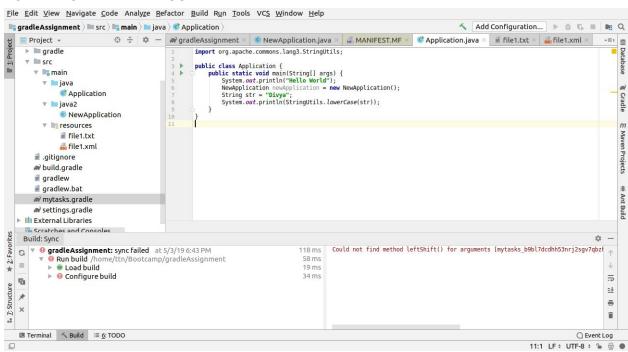
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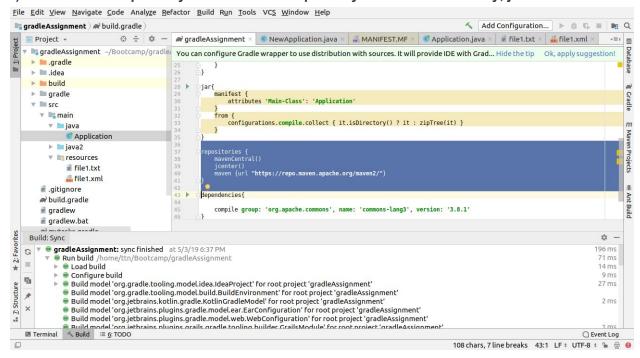
6: TODO

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# **CODE FROM MAIN CLASS**

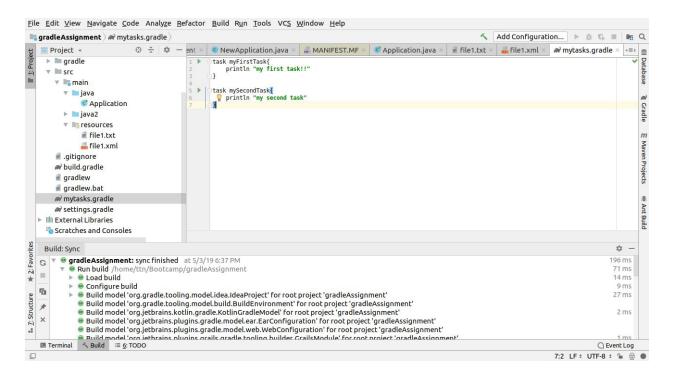


## 5) Find a maven repository and add it as a repository. You can use bintray, jcenter



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

# TASKS DEFINED IN "mytasks.gradle"



### **OUTPUTS RETURNED BY TASKS**

