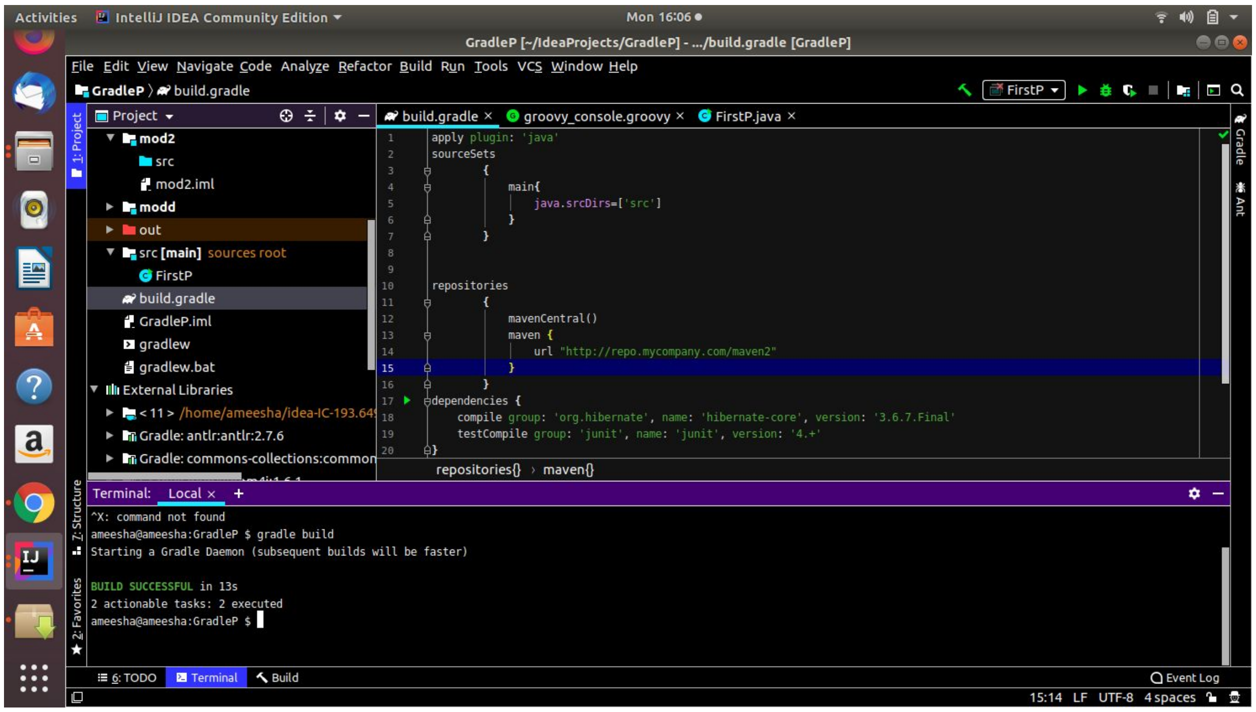
1. Add a gradle dependency and its related repository url.

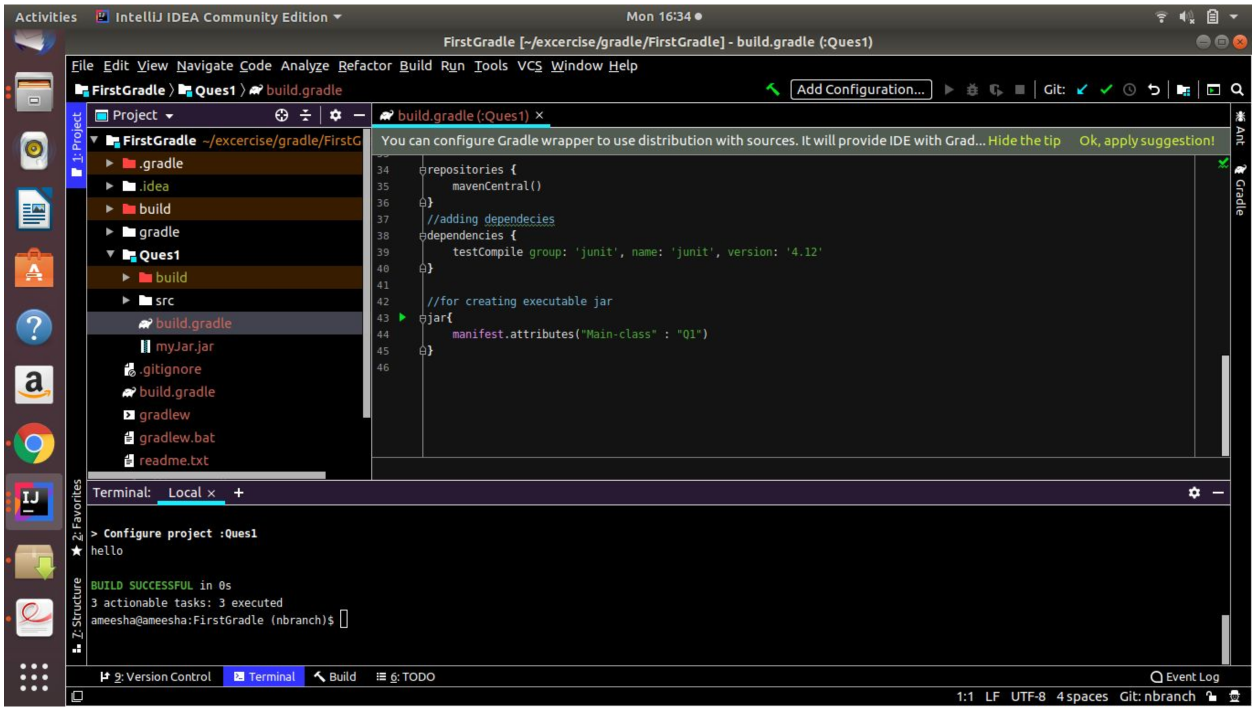


GradleP [~/IdeaProjects/GradleP] - .../build.gradle [GradleP]

```
apply plugin: 'java'
sourceSets
        {
            main{
                java.srcDirs=['src']
            }
        }


repositories
        {
            mavenCentral()
            maven {
                url "http://repo.mycompany.com/maven2"
            }
        }
dependencies {
    compile group: 'org.hibernate', name: 'hibernate-core', version: '3.6.7.Final'
    testCompile group: 'junit', name: 'junit', version: '4.+'
}
```

```
^X: command not found
ameesha@ameesha:GradleP $ gradle build
Starting a Gradle Daemon (subsequent builds will be faster)

BUILD SUCCESSFUL in 13s
2 actionable tasks: 2 executed
ameesha@ameesha:GradleP $
```

2. Using java plugin, make changes in the manifest to make the jar executable. Using java -jar JAR_NAME, the output should be printed as "Hello World"

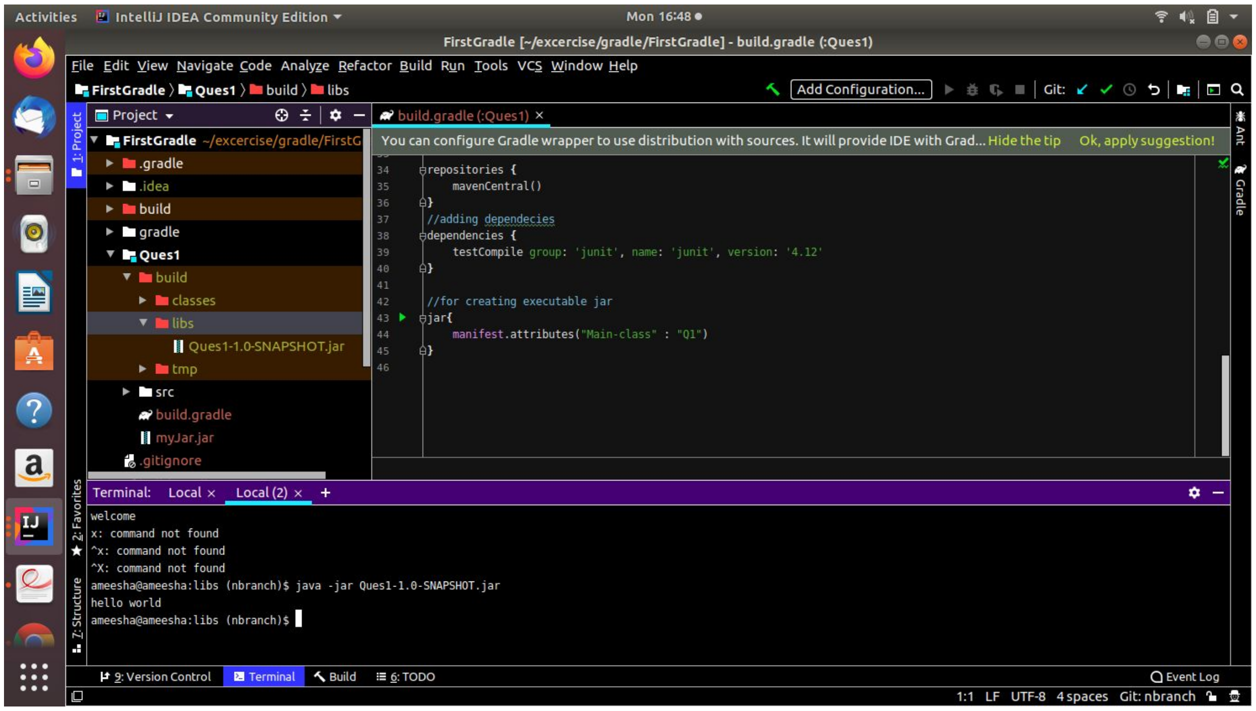


FirstGradle [~/excercise/gradle/FirstGradle] - build.gradle (:Ques1)

You can configure Gradle wrapper to use distribution with sources. It will provide IDE with Grad... Hide the tip   Ok, apply suggestion!

```
repositories {
    mavenCentral()
}
//adding dependecies
dependencies {
    testCompile group: 'junit', name: 'junit', version: '4.12'
}

//for creating executable jar
jar{
    manifest.attributes("Main-class" : "Q1")
}
```

```
> Configure project :Ques1
hello

BUILD SUCCESSFUL in 0s
3 actionable tasks: 3 executed
ameesha@ameesha:FirstGradle (nbranch)$
```



FirstGradle [~/excercise/gradle/FirstGradle] - build.gradle (:Ques1)

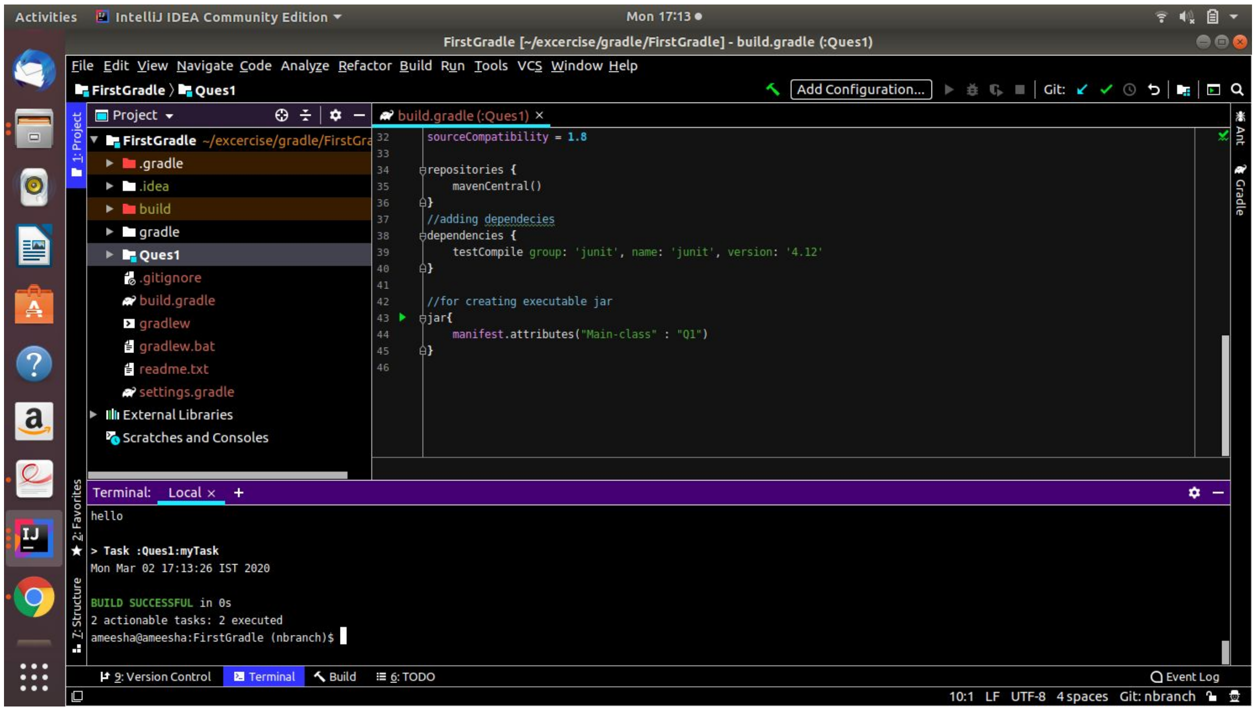
You can configure Gradle wrapper to use distribution with sources. It will provide IDE with Grad... Hide the tip   Ok, apply suggestion!

```
repositories {
    mavenCentral()
}
//adding dependecies
dependencies {
    testCompile group: 'junit', name: 'junit', version: '4.12'
}

//for creating executable jar
jar{
    manifest.attributes("Main-class" : "Q1")
}
```

```
welcome
x: command not found
^x: command not found
^X: command not found
ameesha@ameesha:libs (nbranch)$ java -jar Ques1-1.0-SNAPSHOT.jar
hello world
ameesha@ameesha:libs (nbranch)$
```

3. Differentiate between the different dependency scopes: compile, runtime, testCompile, testRuntime using different dependencies being defined in your build.gradle.
   dependencies {
   testCompile group: 'junit', name: 'junit', version: '4.12'
   compile group: 'joda-time', name: 'joda-time', version: '2.10.5'
   runtime group: 'commons-collections' ,name: 'commons-collections' ,version: '3.2.2'
   testRuntime group: 'commons-lang' ,name: 'commons-lang' ,version: '2.5'
   }
   testCompile are required for testing purpose during compilation
   compile dependencies are required while compiling
   runtime dependencies are required while executing the project

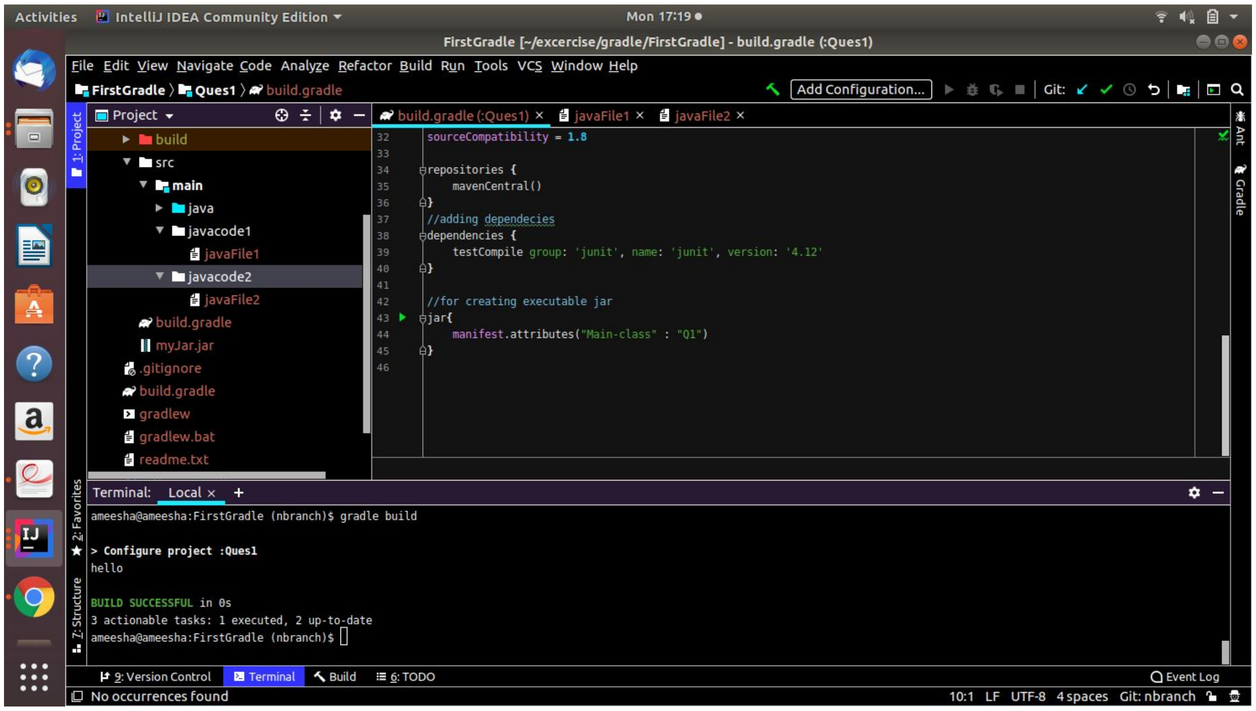
4. Create a custom plugin which contains a custom task which prints the current date-time. Using that plugin in your project, execute that task after the jar task ex



```
sourceCompatibility = 1.8

repositories {
    mavenCentral()
}
//adding dependecies
dependencies {
    testCompile group: 'junit', name: 'junit', version: '4.12'
}

//for creating executable jar
jar{
    manifest.attributes("Main-class" : "Q1")
}
```

```
hello

> Task :Ques1:myTask
Mon Mar 02 17:13:26 IST 2020

BUILD SUCCESSFUL in 0s
2 actionable tasks: 2 executed
ameesha@ameesha:FirstGradle (nbranch)$
```

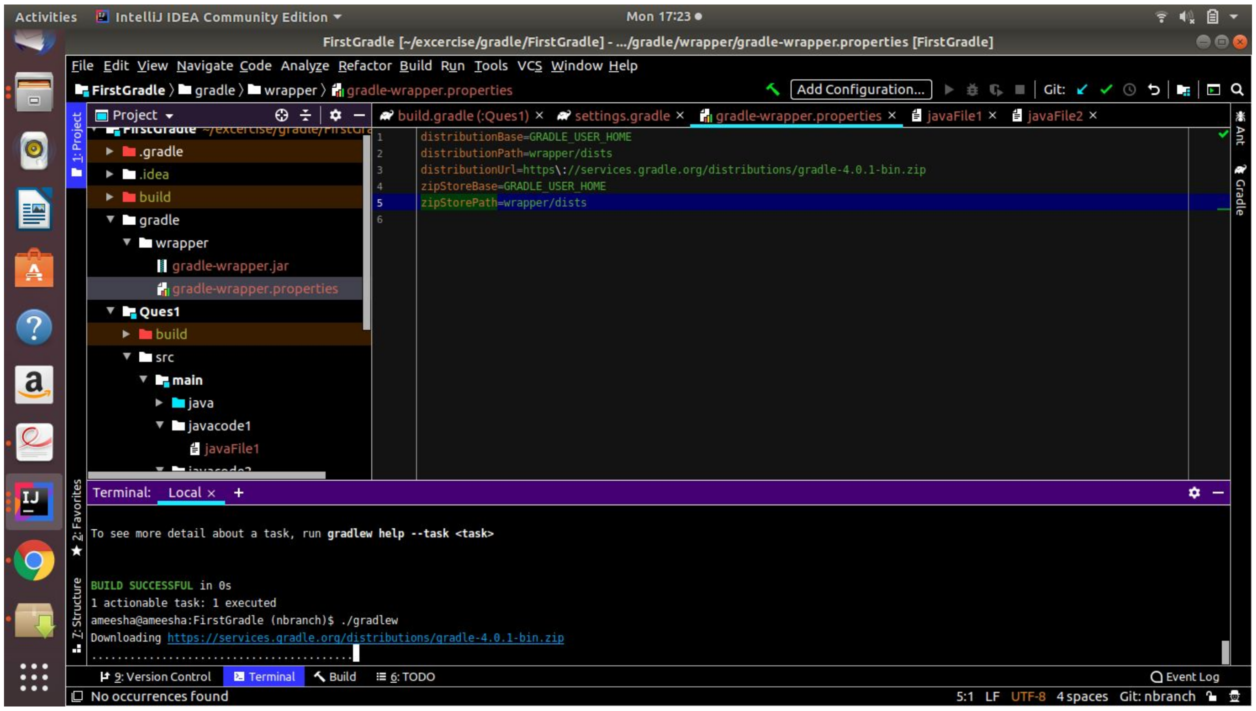
5. Instead of using default source set, use src/main/javaCode1, src/main/javaCode2 to be taken as code source. Make sure that the JAR created contains files from both the directories and not from src/main/java.



```
sourceCompatibility = 1.8

repositories {
    mavenCentral()
}
//adding dependecies
dependencies {
    testCompile group: 'junit', name: 'junit', version: '4.12'
}

//for creating executable jar
jar{
    manifest.attributes("Main-class" : "Q1")
}
```

```
ameesha@ameesha:FirstGradle (nbranch)$ gradle build

> Configure project :Ques1
hello

BUILD SUCCESSFUL in 0s
3 actionable tasks: 1 executed, 2 up-to-date
ameesha@ameesha:FirstGradle (nbranch)$
```

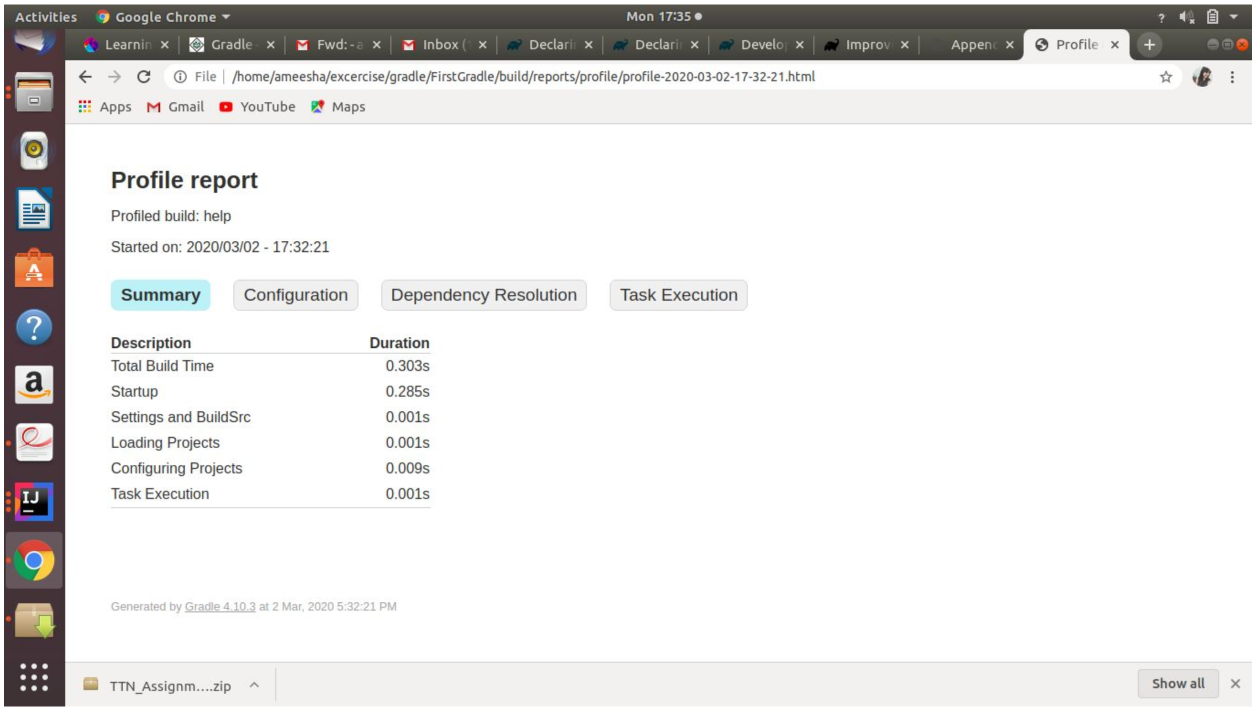
6. Override the Gradle Wrapper task to install a different version of gradle. Make sure that the task written in Q4 also executes with it.


FirstGradle [~/excercise/gradle/FirstGradle] - .../gradle/wrapper/gradle-wrapper.properties [FirstGradle]
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
build.gradle (:Ques1)
settings.gradle
gradle-wrapper.properties
javaFile1
javaFile2
Terminal: Local

```
distributionBase=GRADLE_USER_HOME
distributionPath=wrapper/dists
distributionUrl=https\://services.gradle.org/distributions/gradle-4.0.1-bin.zip
zipStoreBase=GRADLE_USER_HOME
zipStorePath=wrapper/dists
```

```
To see more detail about a task, run gradlew help --task <task>


BUILD SUCCESSFUL in 0s
1 actionable task: 1 executed
ameesha@ameesha:FirstGradle (nbranch)$ ./gradlew
Downloading https://services.gradle.org/distributions/gradle-4.0.1-bin.zip
.........................................
```

7. Run the gradle profile command and attach the resulting files.


File | /home/ameesha/excercise/gradle/FirstGradle/build/reports/profile/profile-2020-03-02-17-32-21.html
Summary
Configuration
Dependency Resolution
Task Execution

Profile report

Profiled build: help

Started on: 2020/03/02 - 17:32:21

Description	Duration
Total Build Time	0.303s
Startup	0.285s
Settings and BuildSrc	0.001s
Loading Projects	0.001s
Configuring Projects	0.009s
Task Execution	0.001s

Generated by Gradle 4.10.3 at 2 Mar, 2020 5:32:21 PM