



MAVEN ASSIGNMENT

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Creating Multi-module project through terminal->

1. Hit command mvn archetype:generate

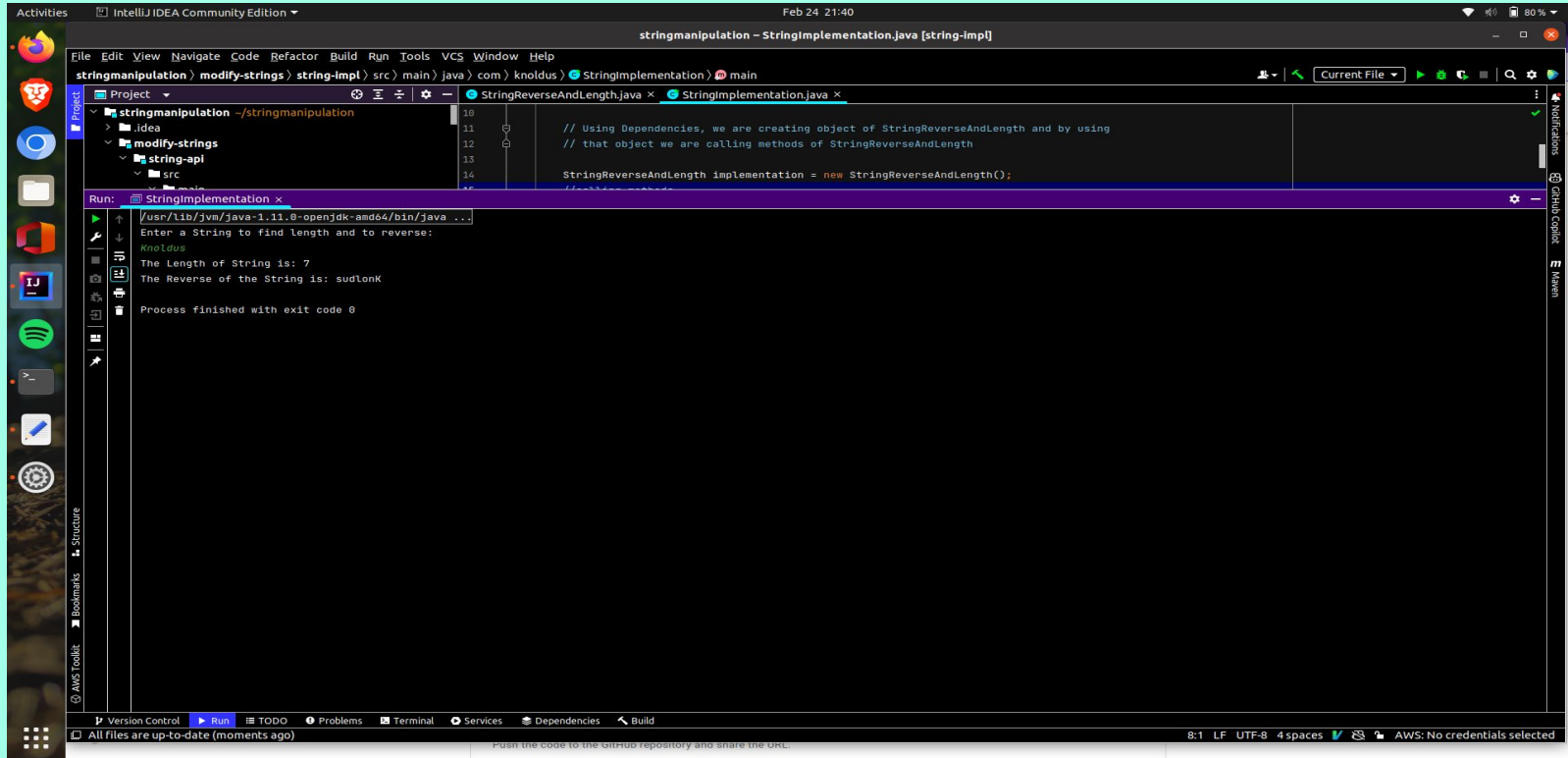
2.

```
choose a number or apply filter (format: [groupId:]artifactId, case sensitive contains): 2007: 2007
choose org.apache.maven.archetypes:maven-archetype-quickstart version:
: 1.0-alpha-1
: 1.0-alpha-2
: 1.0-alpha-3
: 1.0-alpha-4
: 1.0
: 1.1
: 1.3
: 1.4
choose a number: 8: 8
define value for property 'groupId': com.knoldus
define value for property 'artifactId': String-Manipulation
define value for property 'version' 1.0-SNAPSHOT: : 1.0-SNAPSHOT
define value for property 'package' com.knoldus: : com.knoldus
confirm properties configuration:
groupId: com.knoldus
artifactId: String-Manipulation
version: 1.0-SNAPSHOT
package: com.knoldus
Y: : Y
INFO] -----
INFO] Using following parameters for creating project from Archetype: maven-archetype-quickstart:1.4
INFO] -----
INFO] Parameter: groupId, Value: com.knoldus
INFO] Parameter: artifactId, Value: String-Manipulation
INFO] Parameter: version, Value: 1.0-SNAPSHOT
INFO] Parameter: package, Value: com.knoldus
INFO] Parameter: packageInPathFormat, Value: com/knoldus
INFO] Parameter: package, Value: com.knoldus
INFO] Parameter: groupId, Value: com.knoldus
INFO] Parameter: artifactId, Value: String-Manipulation
INFO] Parameter: version, Value: 1.0-SNAPSHOT
INFO] Project created from Archetype in dir: /home/knoldus/String-Manipulation
INFO] -----
INFO] BUILD SUCCESS
INFO] -----
INFO] Total time: 01:15 min
INFO] Finished at: 2023-02-24T23:13:45+05:30
INFO] -----
knoldus@knoldus-Vostro-3590:~$
```

Creating multimodule project through terminal->

- 
3. Edit The pom.xml file of String Manipulation and add `<packaging>pom</packaging>` to it.
 4. Now move to the String-Manipulation Directory and again hit command `mvn archetype:generate`.
 5. Now the modify-strings directory will be created and for that also we use the same method just like above and we will create the string-api and string-impl file.
 6. Now when all the necessary file is created , we will Open this Project with the IDE.

Output: Using dependencies the program is running.



The screenshot displays the IntelliJ IDEA Community Edition interface. The top toolbar includes menus for File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, VCS, Window, and Help. The main editor window shows the file `stringmanipulation - StringImplementation.java [string-impl]`. The project structure on the left includes `stringmanipulation`, `.idea`, `modify-strings`, `string-api`, and `src`. The code in the editor is as follows:

```
10  
11  
12 // Using Dependencies, we are creating object of StringReverseAndLength and by using  
13 // that object we are calling methods of StringReverseAndLength  
14  
15 StringReverseAndLength implementation = new StringReverseAndLength();  
16
```

The Run window at the bottom shows the execution output for `StringImplementation`. The command executed is `/usr/lib/jvm/java-1.11.0-openjdk-amd64/bin/java ...`. The input string is `Knoldus`. The output shows the length of the string is 7 and the reverse is `sudlonK`. The process finished with exit code 0.

The bottom status bar indicates the current file is up-to-date, the build is successful, and the AWS credentials are not selected.

Showing Dependencies:

The screenshot shows the IntelliJ IDEA Community Edition interface. The main editor displays the `pom.xml` file for the `stringmanipulation` project. The file contains several Maven dependencies, including `maven-checkstyle-plugin`, `spotbugs-maven-plugin`, `maven-surefire-plugin`, and `exec-maven-plugin`.

The `Dependencies` tool window at the bottom shows the resolved dependencies for the project. It lists the following dependencies:

Dependency	Version
com.github.spotbugs:spotbugs-maven-plugin	4.7.3.1
com.knoldus:string-api	1.0-SNAPSHOT
com.knoldus:string-impl	4.11
junit:junit	3.2.1
org.apache.maven.plugins:maven-checkstyle-plugin	3.0.0-M9
org.apache.maven.plugins:maven-surefire-plugin	3.1.0
org.codehaus.mojo:exec-maven-plugin	3.1.0

The `Dependencies` tool window also shows the `com.github.spotbugs:spotbugs-maven-plugin` dependency with the message: "No information is available on Package Search".

The status bar at the bottom indicates the current file is up-to-date (45 minutes ago) and shows the text: "How do I push a Maven repository code?"



THANK YOU!!!