# Maven Assignment

By: Aditya Kumar Singh (Emp. ID - 1850) Sakshi Mittal • Yesterday (Edited 12:18 AM)

100 points Due 11:59 PM

Assignment Part - I

Read the question carefully and select the best answer

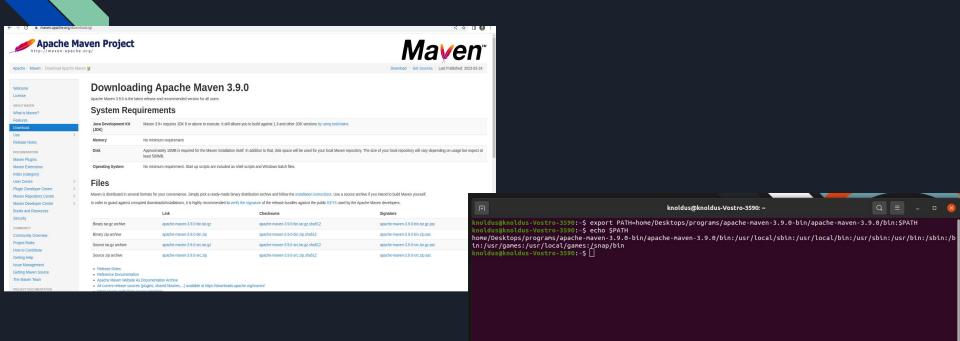
Assignment Part - II

- 1. Download and install Maven
- 2. Create a Multi-module project according to the instructions given below:

#### Instructions -

- Create a directory
  - stringmanipulation which will have the main pom.xml
  - navigate into the directory and create one module named **modify-strings** which will have its own **pom.xml** file.
  - Navigate into **modify-string** and create two more modules named **string-api** and **string-impl** with a **pom.xml string-api** and **string-impl** will have their own **pom.xml** files.
  - In total: 4 pom.xml files
  - Inside string-api : Make two methods 1. reverseString() 2. getStringLength() and give the implementation of these methods.
  - Inside string-impl: This will be the main class and call these methods here. Take the string input from the user.
- Mandatory dependencies/plugins that should be in your parent pom:
  - maven-checkstyle-plugin
  - spotbugs-maven-plugin
  - maven-surefire-plugin
  - exec-maven-plugin
- Follow clean code Practice.

#### Download and Install Maven

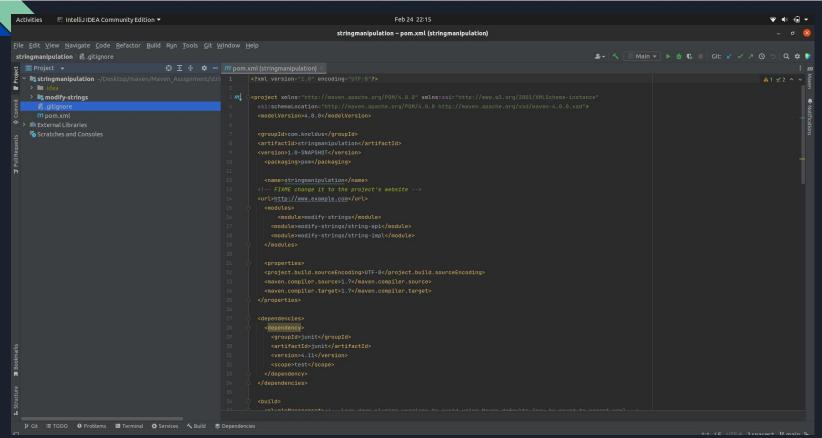


# Building Maven architecture

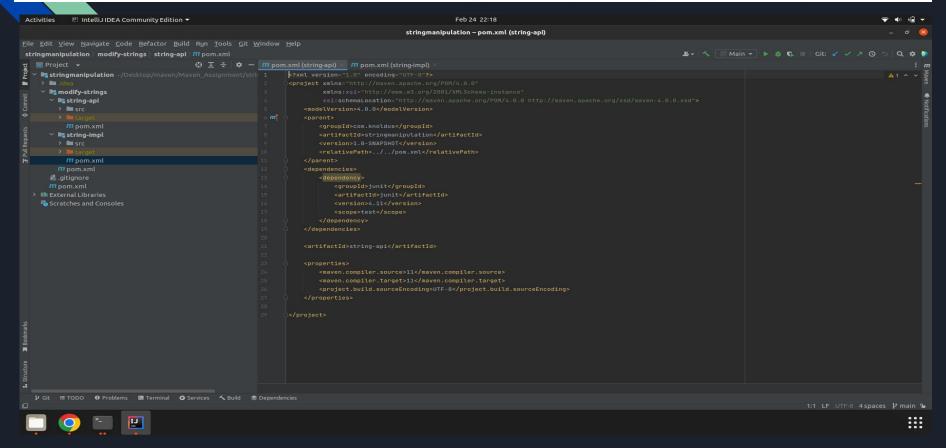
```
knoldus@knoldus-Vostro-3590: ~/Desktop/maven Q =
knoldus@knoldus-Vostro-3590:-$ cd Desktop/
knoldus@knoldus-Vostro-3590:~/DesktopS mkdir maven
knoldus@knoldus-Vostro-3590:~/Desktop$ cd maven/
knoldus@knoldus-Vostro-3590:~/Desktop/maven$ mvn archetype:generate
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$Ref
lectUtils$1 (file:/usr/share/maven/lib/quice.jar) to method java.lang.ClassLoade
r.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.
internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflect
ive access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects...
[INFO] ------ org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] ------[ pom ]-----
[INFO]
[INFO] >>> maven-archetype-plugin:3.2.1:generate (default-cli) > generate-source
s @ standalone-pom >>>
[INFO] <<< maven-archetype-plugin:3.2.1:generate (default-cli) < generate-source
s @ standalone-pom <<<
```

```
knoldus@knoldus-Vostro-3590: ~/Desktop/maven Q ≡ _ □
[INFO] Using following parameters for creating project from Archetype: maven-arc
hetype-quickstart:1.4
[INFO] Parameter: groupId, Value: com.knoldus
[INFO] Parameter: artifactId, Value: stringmanipulation
[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: stringmanipulation
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: /home/knoldus/Desktop/maven/string
manipulation
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] Total time: 52.016 s
[INFO] Finished at: 2023-02-24T20:03:26+05:30
[INFO] -----
knoldus@knoldus-Vostro-3590:~/Desktop/maven$
```

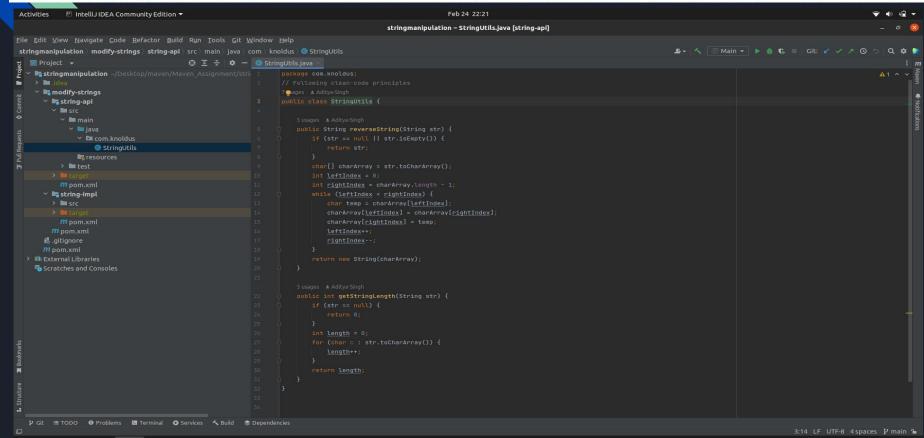
- Create a directory
  - stringmanipulation which will have the main pom.xml
  - navigate into the directory and create one module named modify-strings which will have its own pom.xml file.



- Navigate into modify-string and create two more modules named string-api and string-impl with a pom.xml
  - string-api and string-impl will have their own pom.xml files.
  - In total : 4 pom.xml files



 Inside string-api: Make two methods 1. reverseString() 2. getStringLength() and give the implementation of these methods.



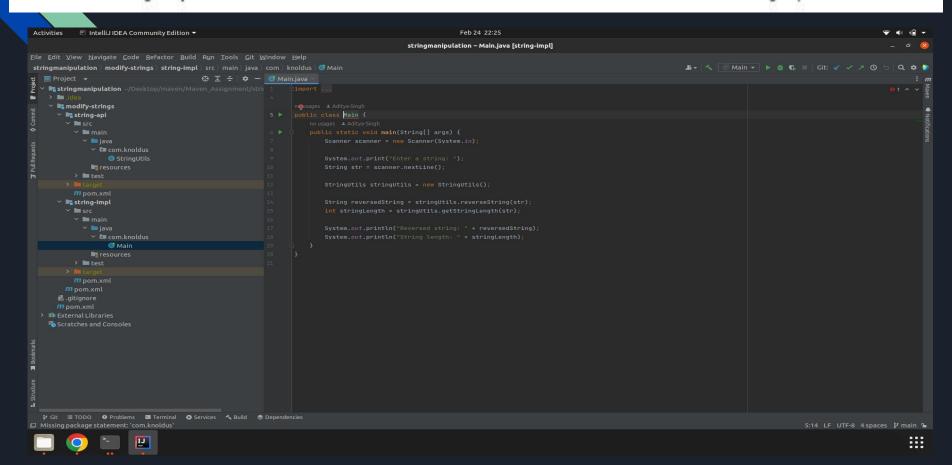




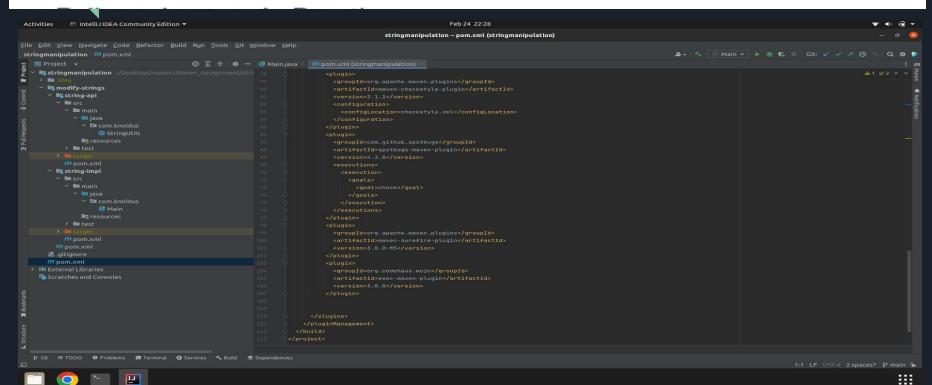




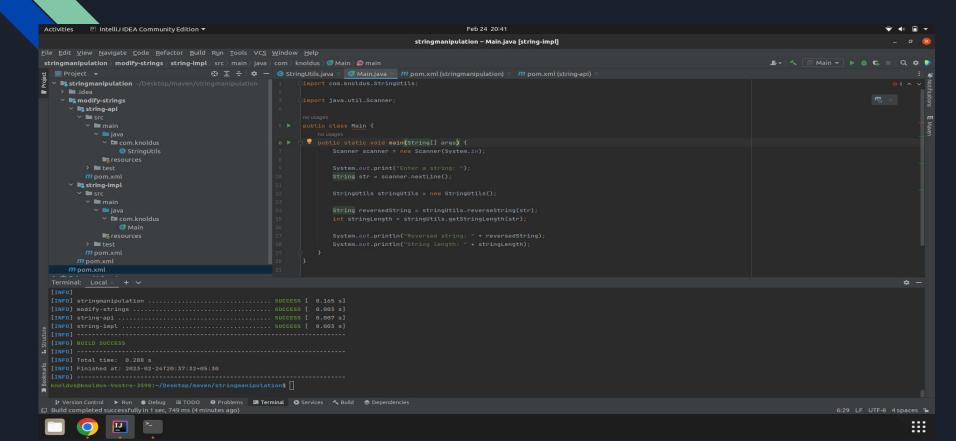
- Inside string-impl: This will be the main class and call these methods here. Take the string input from the user.



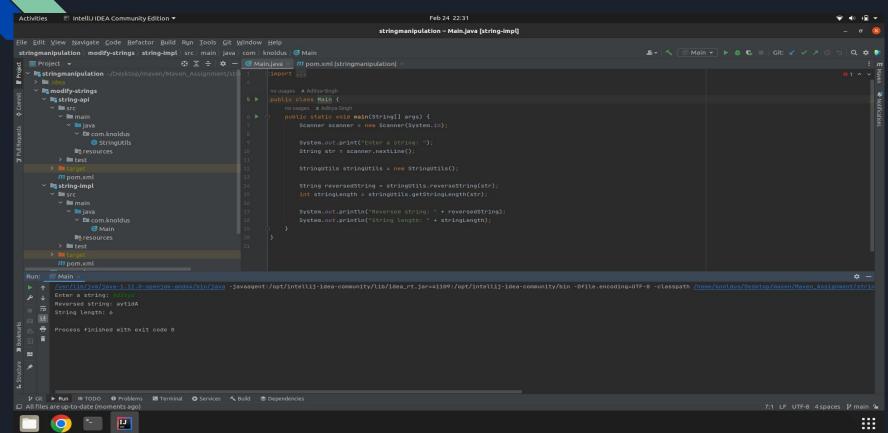
- Mandatory dependencies/plugins that should be in your parent pom:
  - maven-checkstyle-plugin
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  - maven-surefire-plugin
  - exec-maven-plugin



# Build Output

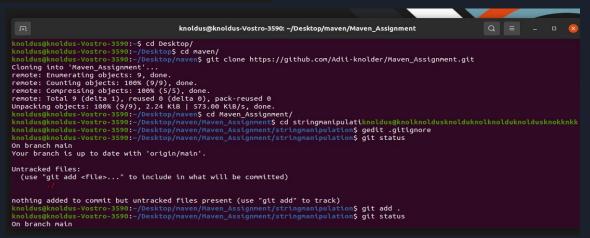


## reverseString() and getStringLength() Output



## Push project build on Github

```
knoldus@knoldus-Vostro-3590: ~/Desktop/maven/Maven Assignment
knoldus@knoldus-Vostro-3590:~$ cd Desktop/
knoldus@knoldus-Vostro-3590:~/Desktop$ cd maven/
knoldus@knoldus-Vostro-3590:~/Desktop/mavenS git clone https://github.com/Adii-knolder/Maven Assignment.git
Cloning into 'Maven Assignment'...
remote: Enumerating objects: 9. done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 9 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (9/9), 2.24 KiB | 573.00 KiB/s, done.
knoldus@knoldus-Vostro-3590:~/Desktop/maven$ cd Maven Assignment/
knoldus@knoldus-Vostro-3590:~/Desktop/maven/Maven_Assignment$ cd stringmanipulatiknoldus@knolknoldusknolduknoldusknoldusknokknkk
knoldus@knoldus-Vostro-3590:~/Desktop/maven/Maven Assignment/stringmanipulation$ gedit .qitiqnore
knoldus@knoldus-Vostro-3590:~/Desktop/maven/Maven_Assignment/stringmanipulation$ git status
On branch main
Your branch is up to date with 'origin/main'.
Untracked files:
 (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
knoldus@knoldus-Vostro-3590:~/Desktop/maven/Maven Assignment/stringmanipulationS git add .
knoldus@knoldus-Vostro-3590:~/Desktop/maven/Maven_Assignment/stringmanipulation$ git status
On branch main
```



# GitHub Repository Link

https://github.com/Adii-knolder/Maven Assignment.git