Maven Assignment

Creating maven project with sub-modules:-

Step 1: Generate new maven project

mvn archetype:generate

```
knoldus@knoldus-Vostro-3559: ~/Projects/MavenAissignme...
[INFO] Using following parameters for creating project from Archetype: maven-arc
hetype-quickstart:1.4
[INFO] -----
[INFO] Parameter: groupId, Value: com.knoldus.stringmanipulation
[INFO] Parameter: artifactId, Value: StringManipulation
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.knoldus.stringmanipulation
[INFO] Parameter: packageInPathFormat, Value: com/knoldus/stringmanipulation
[INFO] Parameter: package, Value: com.knoldus.stringmanipulation
[INFO] Parameter: groupId, Value: com.knoldus.stringmanipulation
[INFO] Parameter: artifactId, Value: StringManipulation
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: /home/knoldus/Projects/MavenAissig
nment/StringManipulation
[INFO] ------
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 05:54 min
[INFO] Finished at: 2023-02-24T21:17:11+05:30
knoldus@knoldus-Vostro-3559:~/Projects/MavenAissignment$ cd StringManipulation
knoldus@knoldus-Vostro-3559:~/Projects/MavenAissignment/StringManipulation$
```

Step 2: Go to project [StringManipulation] directory and create modify-strings module

```
knoldus@knoldus-Vostro-3559: ~/Projects/MavenAissignme...
---
[INFO] Using following parameters for creating project from Archetype: maven-arc
hetype-quickstart:1.4
[INFO] -----
---
[INFO] Parameter: groupId, Value: com.knoldus.stringmanipulation
[INFO] Parameter: artifactId, Value: modify-strings
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.knoldus.stringmanipulation
[INFO] Parameter: packageInPathFormat, Value: com/knoldus/stringmanipulation
[INFO] Parameter: package, Value: com.knoldus.stringmanipulation
[INFO] Parameter: groupId, Value: com.knoldus.stringmanipulation
[INFO] Parameter: artifactId, Value: modify-strings
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: /home/knoldus/Projects/MavenAissig
nment/StringManipulation/modify-strings
[INFO] ------
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 31.554 s
[INFO] Finished at: 2023-02-24T21:21:45+05:30
knoldus@knoldus-Vostro-3559:~/Projects/MavenAissignment/StringManipulation$
```

Step 3: Go to modify-strings module and create two module [modify-string as parent module]

```
knoldus@knoldus-Vostro-3559: ~/Projects/MavenAissignme...
[INFO] Using following parameters for creating project from Archetype: maven-arc
hetype-quickstart:1.4
                          [INFO] -----
[INFO] Parameter: groupId, Value: com.knoldus.stringmanipulation
[INFO] Parameter: artifactId, Value: string-api
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.knoldus.stringmanipulation
[INFO] Parameter: packageInPathFormat, Value: com/knoldus/stringmanipulation
[INFO] Parameter: package, Value: com.knoldus.stringmanipulation [INFO] Parameter: groupId, Value: com.knoldus.stringmanipulation
[INFO] Parameter: artifactId, Value: string-api
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: /home/knoldus/Projects/MavenAissig
nment/StringManipulation/modify-strings/string-api
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 25.445 s
[INFO] Finished at: 2023-02-24T21:24:45+05:30
[INFO] ------
knoldus@knoldus-Vostro-3559:~/Projects/MavenAissignment/StringManipulation/modif
/-strings$
```

Step 4: Method [1. reverseString() 2. getStringLength()] created

```
StringApi.java - Visual Studio Code
File Edit Selection View Go Run Terminal Help
        J StringApi.java 1 X
     ts > string-manipulation > StringManipulation > modify-strings > string-api > src > main > java > com > knoldus > stringmanipulation >
              public class StringApi
                   public int getStringLength(String string){
                       int length = 0;
                       for(char character: string.toCharArray())
                           length++;
                       return length;
                   public String reverseString(String string){
                       char[] characterArray = string.toCharArray();
                       int stringLength = getStringLength(string);
                       for (int index = 0; index < stringLength / 2; index++) {</pre>
                            char character = characterArray[index];
                            characterArray[index] = characterArray[stringLength - index - 1];
                            characterArray[stringLength - index - 1] = character;
 (Q)
                       return new String(characterArray);
                                                                                   Ln 1, Col 1 Spaces: 4 UTF-8 LF 🚷 Java 🔊 🚨

    Restricted Mode

                 ⊗ 0 ▲ 1
```

Step 5: Inside string-impl main class created and both methods called

Step 6: Mandatory dependencies/plugins added in parent pom.xml