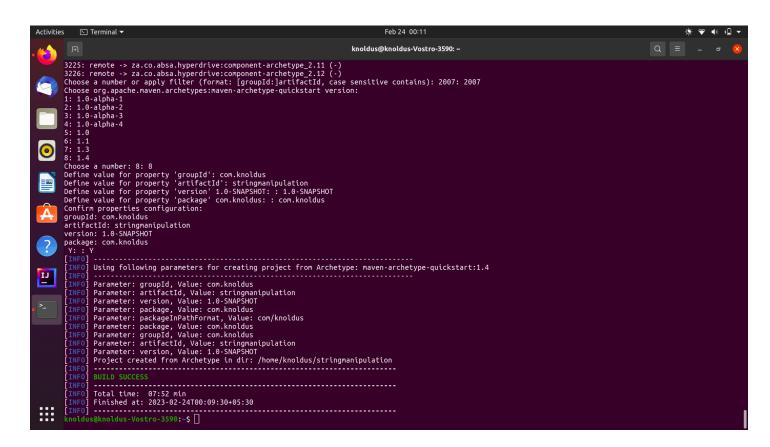
Name - Pradyuman Pratap Singh

Employee Code: 1884

Steps I followed to create a Multi-Module Project(KIP Assignment) through Terminal.

- Step 1: Open the terminal and enter mvn archetype:generate.
- Step 2: It will ask you to fill in GroupID, ArtifactID, Version, and Package.

Here you fill in the details of the parent module.

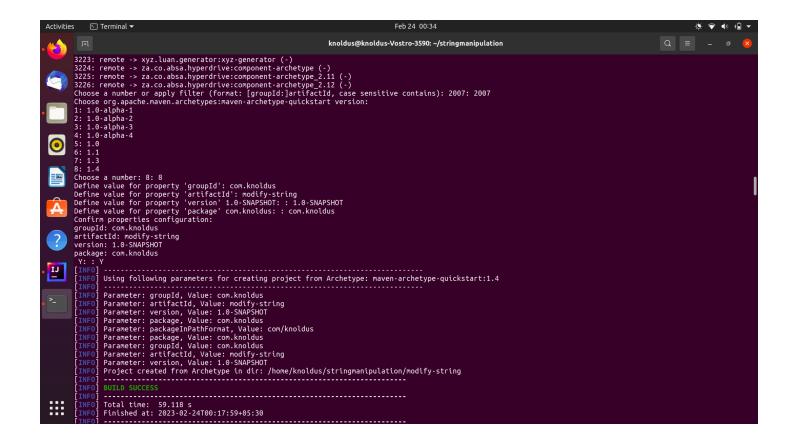


Now, go to the created file and delete the src file manually.

 Step 3: Now open the POM.xml file of stringmanipulation ( Parent Module) and add <packaging>pom</packaging>.
 pom is basically a container of submodules. If we don't add this to POM.xml the submodule build fails abruptly.

```
Save
 Open
1 <?xml version="1.0" encoding="UTF-8" standalone="no"?>
2 ct xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/-
  XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://-
  maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
5
6
    <groupId>com.knoldus
8
   <artifactId>stringmanipulation</artifactId>
9
10
   <version>1.0-SNAPSHOT</version>
11
   <packaging>pom</packaging>
12
13
14
   <name>stringmanipulation
15
16
   <!-- FIXME change it to the project's website -->
17
18
   <url>http://www.example.com</url>
19
                                             XML ▼ Tab Width: 8 ▼
                                                                     Ln 12, Col 3
                                                                                     INS
```

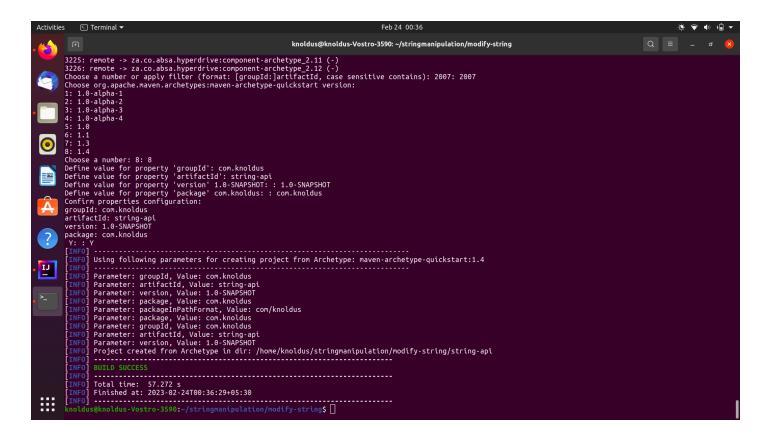
 Step 4: Use cd stringmanipulation command to get into that module and follow the above steps (Give ArtifactID: modify-string)

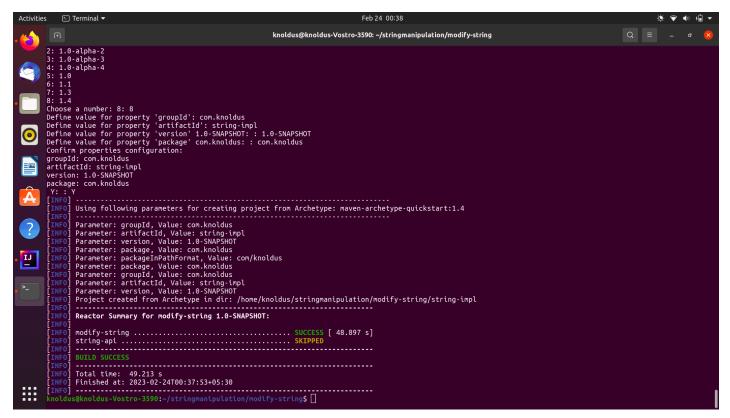


We are adding **<packaging>pom</packaging>** in POM.xml file of modify-string because we have to create some more submodules of it.

```
pom.xml
 Open
                                                                      Save
19
    </parent>
20
21
22
23
    <groupId>com.knoldus</groupId>
24
25
26
    <artifactId>modify-string</artifactId>
27
28
29
    <version>1.0-SNAPSHOT</version>
30
31
32
    <packaging>pom</packaging>
33
34
35
   <name>modify-string</name>
36
37
   <!-- FIXME change it to the project's website -->
38
39
Bracket match found on line: 32
                                                XML ▼ Tab Width: 8 ▼
                                                                         Ln 32, Col 3
                                                                                           INS
```

• Step 5: Use **cd modify-string** to get into that module and create 2 more submodules using **mvn archetype:generate**. And name them **string-api** and **string-impl** respectively.





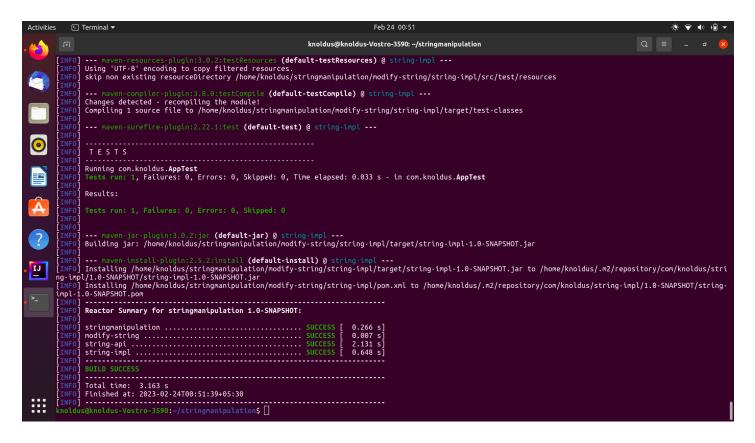
## You can edit their POM.xml file by adding <packaging>jar</packaging> or by default it will be jar.

```
pom.xml
  Open
                                                             Save
1 <?xml version="1.0" encoding="UTF-8"?>
2 project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/-
  XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://-
  maven.apache.org/xsd/maven-4.0.0.xsd">
   <modelVersion>4.0.0</modelVersion>
4
    <parent>
5
     <artifactId>modify-string</artifactId>
6
     <groupId>com.knoldus
     <version>1.0-SNAPSHOT
8
   </parent>
9
10
   <groupId>com.knoldus
11
    <artifactId>string-api</artifactId>
    <version>1.0-SNAPSHOT
12
13
   <packaging>jar</packaging>
   <name>string-api</name>
14
15
    <!-- FIXME change it to the project's website -->
16
   <url>http://www.example.com</url>
17
18
     19
                                                               Ln 13, Col 3
                                          XML ▼ Tab Width: 8 ▼
                                                                              INS
```

```
pom.xml
  Open
                                                             Save
1 <?xml version="1.0" encoding="UTF-8"?>
2 cproject xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/-
  XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://-
  maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
3
4
    <parent>
5
      <artifactId>modify-string</artifactId>
      <groupId>com.knoldus
6
     <version>1.0-SNAPSHOT
7
   </parent>
8
10
   <groupId>com.knoldus
    <artifactId>string-impl</artifactId>
11
12
    <version>1.0-SNAPSHOT
    <packaging>jar</packaging>
13
    <name>string-impl</name>
14
    <!-- FIXME change it to the project's website -->
15
    <url>http://www.example.com</url>
16
17
18
    operties>
19
     XML ▼ Tab Width: 8 ▼
                                                                Ln 13, Col 3
Bracket match found on line: 13
                                                                                INS
```

Mark directories as Source root and test source root manually.

## **BUILD SUCCESSFUL**



Now Open the project and work on the project structure created through Terminal.

