

/*****creating a maven based application to display list and copy content from source file to destination file using Guava dependency

1. open terminal and type

```
mvn archetype:generate -DgroupId=com.example -DartifactId=MyMavenGuavaApp  
-DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
```

2. get into the directory

```
cd MyMavenGuavaApp
```

```
/MyMavenGuavaApp/gedit pom.xml
```

```
// add dependencies from maven central repository
```

goto chrome --> maven central repository --> search for a particular dependency --> type guava--> it shows the dependency --> scroll up --> click on the recent version and copy the dependency available and also search for commons-io and paste it in pom.xml under dependencies tag

```
<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/maven-v4_0_0.xsd">  
  <modelVersion>4.0.0</modelVersion>  
  <groupId>com.example</groupId>  
  <artifactId>MyMavenGuavaApp</artifactId>  
  <packaging>jar</packaging>  
  <version>1.0-SNAPSHOT</version>  
  <name>MyMavenGuavaApp</name>  
  <url>http://maven.apache.org</url>  
  <dependencies>  
    <dependency>  
      <groupId>junit</groupId>  
      <artifactId>junit</artifactId>  
      <version>3.8.1</version>  
      <scope>test</scope>  
    </dependency>  
  
    <!-- https://mvnrepository.com/artifact/com.google.guava/guava -->  
    <dependency>  
      <groupId>com.google.guava</groupId>  
      <artifactId>guava</artifactId>  
      <version>33.4.0-jre</version>  
    </dependency>
```

```
<!-- https://mvnrepository.com/artifact/commons-io/commons-io -->
<dependency>
  <groupId>commons-io</groupId>
  <artifactId>commons-io</artifactId>
  <version>2.18.0</version>
</dependency>
```

```
</dependencies>
```

```
<!-- Build: Configuring plugins and build settings -->
<build>
<plugins>
<!-- Example: Maven Compiler Plugin to compile Java code -->
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-compiler-plugin</artifactId>
<version>3.8.1</version>
<configuration>
<source>1.7</source>
<target>1.7</target>
</configuration>
</plugin>
```

```
<!-- Example: Maven Surefire Plugin to run tests -->
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-surefire-plugin</artifactId>
<version>2.22.2</version>
</plugin>
```

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-jar-plugin</artifactId>
  <version>3.1.0</version>
  <configuration>
    <archive>
      <manifestEntries>
        <Main-Class>com.example.App</Main-Class>
      </manifestEntries>
    </archive>
  </configuration>
```

```
</plugin>
```

```
</plugins>
```

```
</build>
```

```
</project>
```

3. edit the App.java file which is available at /src/main/java/com/example

```
package com.example;
```

```
/**
```

```
 * Hello world!
```

```
 *
```

```
 */
```

```
import org.apache.commons.io.FileUtils;
```

```
import java.io.File;
```

```
import java.io.IOException;
```

```
import com.google.common.collect.ImmutableList;
```

```
public class App
```

```
{
```

```
    public static void main( String[] args )
```

```
    {
```

```
        ImmutableList<String> fruits = ImmutableList.of("Apple", "Banana", "Cherry");
```

```
        System.out.println(fruits);
```

```
        // Define source and destination files
```

```
        File sourceFile = new File("source.txt");
```

```
        File destFile = new File("destination.txt");
```

```
        try {
```

```
            // Copy file using Apache Commons IO
```

```
            FileUtils.copyFile(sourceFile, destFile);
```

```
            System.out.println("File copied successfully!");
```

```
        } catch (IOException e) {
```

```
            System.err.println("Error occurred while copying file: " + e.getMessage());
```

```
        }
```

```
    }
```

```
}
```

3. mvn clean install

4. java -jar target/MyMaven.....jar // if it gives error saying class not found, execute the below command

5. mvn exec:java -Dexec.mainClass="com.example.App"

[INFO] Scanning for projects...

[INFO]

[INFO] -----< com.example:MyMavenGuavaApp >-----

[INFO] Building MyMavenGuavaApp 1.0-SNAPSHOT

[INFO] -----[jar]-----

[INFO]

[INFO] --- exec-maven-plugin:3.5.0:java (default-cli) @ MyMavenGuavaApp ---

[Apple, Banana, Cherry]

File copied successfully!

[INFO] -----

[INFO] BUILD SUCCESS

[INFO] -----

[INFO] Total time: 2.198 s

[INFO] Finished at: 2025-03-28T16:12:33+05:30

[INFO] -----

// we can see the list created as [Apple, Banana, Cherry] at line number 133 and also file copied successfully

6. hemavathi@hemavathi-VirtualBox:~/MyMavenGuavaApp\$ cat destination.txt

This is a file created using common io dependency