## Module-8 Modular Programming

## Problem Statement 1:

Set up a new Maven project and add external dependencies using Maven Central. Understand the role of the pom.xml file in dependency management.

## Problem Statement 2:

Explore Maven's transitive dependency resolution. Create a project with multiple dependencies and observe how Maven resolves and downloads them.

A demo maven project. Pom.xml

```
<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"
https://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>demo</groupId>
 <artifactId>MavenDemoProject</artifactId>
 <version>0.0.1-SNAPSHOT</version>
       <groupId>org.junit.jupiter
       <artifactId>junit-jupiter</artifactId>
       <version>5.10.0
       <scope>test</scope>
       <groupId>org.mockito
       <artifactId>mockito-core</artifactId>
       <version>5.5.0
       <scope>test</scope>
       <groupId>org.mockito
       <artifactId>mockito-junit-jupiter</artifactId>
       <version>5.5.0
       <scope>test</scope>
/project>
```