

**(21CC505PC)**  
**SOFTWARE ENGINEERING LAB**  
**LAB EXERCISE - 5**  
**BUILD TOOLS**  
**TOPIC -3**

**CREATING MAVEN WEB PROJECT USING  
ECLIPSE AND PUSH INTO TO GITHUB**

## List of Experiments:

Do the following exercises for any one project given in the list of sample projects or any other projects?

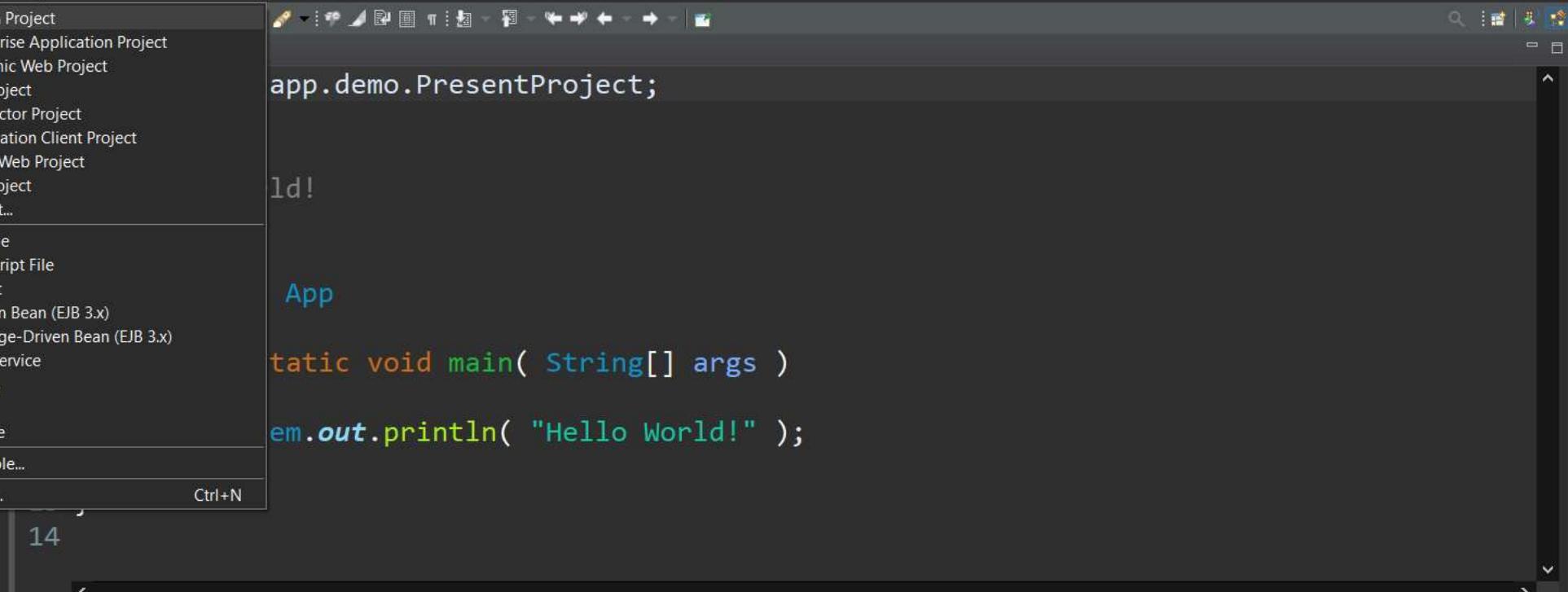
1. Development of problem statement.
2. Preparation of Software Requirement Specification Document, Design Documents and Testing Phase related documents.
3. Study and usage of any Design phase CASE tool
4. Creating the project and committing using Git and GitHub
5. Creating Maven Java and Maven Web project using Eclipse and Push them to GitHub.
6. Building the CI/CD pipeline using Jenkins for the project in the previous experiment.
7. Local Deployment of project using Docker, Kubernetes and Monitoring using Nagios tool.
8. Cloud Deployment of a project in the AWS Cloud using EC2 instance.

- New Alt+Shift+N >
- Open File...
- Open Projects from File System... >
- Recent Files
- Close Editor Ctrl+W
- Close All Editors Ctrl+Shift+W
- Save Ctrl+S
- Save As... Ctrl+Shift+S
- Save All
- Revert
- Move...
- Rename... F2
- Refresh F5
- Convert Line Delimiters To >
- Print... Ctrl+P
- Import... >
- Export... >
- Properties Alt+Enter
- Switch Workspace >
- Restart
- Exit

- Maven Project
- Enterprise Application Project
- Dynamic Web Project
- EJB Project
- Connector Project
- Application Client Project
- Static Web Project
- JPA Project
- Project... >
- CSS File
- JavaScript File
- Servlet
- Session Bean (EJB 3.x)
- Message-Driven Bean (EJB 3.x)
- Web Service
- Folder
- File
- JSP File
- Example... >
- Other... Ctrl+N

```
app.demo.PresentProject;  
ld!  
  
App  
  
static void main( String[] args )  
  
em.out.println( "Hello World!" );
```

14

A screenshot of the Eclipse IDE interface. The main area shows a Java code editor with the following content:

```
app.demo.PresentProject;  
ld!  
  
App  
  
static void main( String[] args )  
  
em.out.println( "Hello World!" );
```

The code editor has a tab bar at the bottom with the following tabs: Markers, Properties, Servers, Data Source Explorer, Snippets, and Console. The 'Console' tab is currently selected. Below the tabs, a message states: "No consoles to display at this time." The status bar at the bottom right shows the date and time: "04:20 PM 29-04-2022".

Markers Properties Servers Data Source Explorer Snippets Console X

No consoles to display at this time.

Project Explorer X App.java X New Maven Project

```
1 package packa
2
3 /**
4 * He
5 *
6 */
7 public
8 {
9
10
11
12
13
14 }
```

New Maven project

Select an Archetype

Catalog: All Catalogs Configure...

Filter: org.apache. |

Group Id	Artifact Id	Version
org.apache.maven.archetypes	maven-archetype-profiles	1.0-alpha-4
org.apache.maven.archetypes	maven-archetype-quickstart	1.4
org.apache.maven.archetypes	maven-archetype-simple	1.4
org.apache.maven.archetypes	maven-archetype-site	1.4
org.apache.maven.archetypes	maven-archetype-site-simple	1.4
org.apache.maven.archetypes	maven-archetype-site-skin	1.4
org.apache.maven.archetypes	maven-archetype-webapp	1.4

Show the last version of Archetype only    Include snapshot archetypes   Add Archetype...

Advanced

Markers Pro No consoles to display

?

< Back Next > Finish Cancel

Project Explorer X App.java X New Maven Project

```
1 package com.app.demo;
2
3 /**
4 * Hello world!
5 */
6
7 public class App {
8
9 }
10
11
12
13 }
14 }
```

New Maven project

Specify Archetype parameters

Group Id: com.app.demo

Artifact Id: PresentWebProject

Version: 0.0.1-SNAPSHOT

Package: com.app.demo.PresentWebProject

Properties available from archetype:

Name	Value

Add... Remove

< Advanced >

Markers Pro No consoles to display

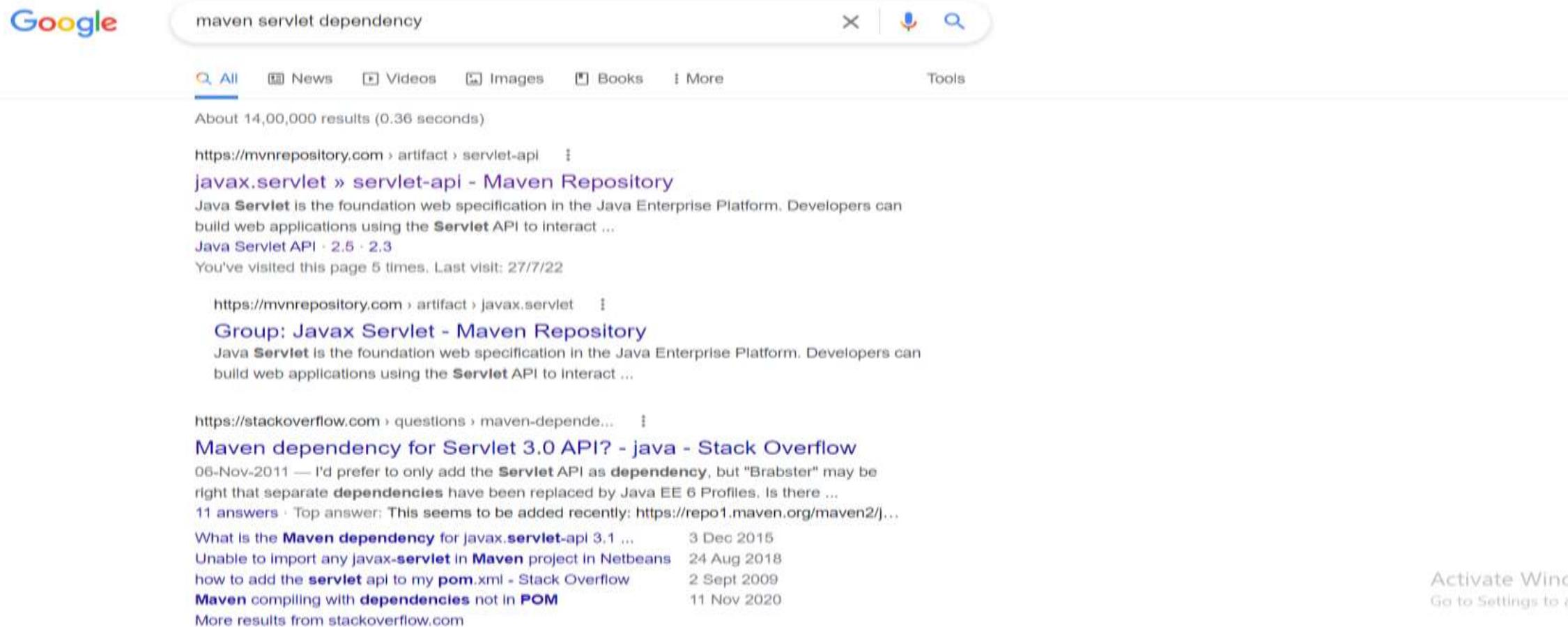
?

< Back Next > Finish Cancel

37°C Sunny 04:22 PM 29-04-2022

# Maven Web Project in Eclipse

In pom.xml add the dependencies as shown below.



Google search results for "maven servlet dependency". The search bar shows the query. Below it, the navigation bar includes All, News, Videos, Images, Books, More, and Tools. The results section shows approximately 14,00,000 results in 0.36 seconds. The top result is a link to the Maven Repository for javax.servlet > servlet-api. The second result is a link to the Maven Repository for Group: Javax Servlet. The third result is a Stack Overflow question about Maven dependency for Servlet 3.0 API.

maven servlet dependency

All News Videos Images Books More Tools

About 14,00,000 results (0.36 seconds)

[https://mvnrepository.com › artifact › servlet-api](https://mvnrepository.com/artifact/servlet-api)

**javax.servlet » servlet-api - Maven Repository**

Java **Servlet** is the foundation web specification in the Java Enterprise Platform. Developers can build web applications using the **Servlet API** to interact ...

**Java Servlet API · 2.5 · 2.3**

You've visited this page 5 times. Last visit: 27/7/22

[https://mvnrepository.com › artifact › javax.servlet](https://mvnrepository.com/artifact/javax.servlet)

**Group: Javax Servlet - Maven Repository**

Java **Servlet** is the foundation web specification in the Java Enterprise Platform. Developers can build web applications using the **Servlet API** to interact ...

[https://stackoverflow.com › questions › maven-dependencies](https://stackoverflow.com/questions/maven-dependencies)

**Maven dependency for Servlet 3.0 API? - java - Stack Overflow**

06-Nov-2011 — I'd prefer to only add the **Servlet API** as **dependency**, but "Brabster" may be right that separate **dependencies** have been replaced by Java EE 6 Profiles. Is there ...

11 answers · Top answer: This seems to be added recently: <https://repo1.maven.org/maven2/j...>

What is the **Maven dependency** for **javax.servlet-api** 3.1 ... 3 Dec 2015

Unable to import any **javax-servlet** in **Maven** project In Netbeans 24 Aug 2018

how to add the **servlet** api to my **pom.xml** - Stack Overflow 2 Sept 2009

**Maven** compiling with **dependencies** not in **POM** 11 Nov 2020

More results from stackoverflow.com

Activate Wind  
Go to Settings to a...

# Maven Web Project in Eclipse

In pom.xml add the dependencies as shown below.

The screenshot shows the mvnrepository.com website for the javax.servlet.servlet-api artifact. The page includes a sidebar with categories like Android Packages, Java Specifications, and Web Assets. The main content area displays the artifact's ranking (#40 in MvnRepository, #2 in Java Specifications), its usage (#12,360 artifacts), and a note indicating it was moved to javax.servlet > javax.servlet-api. Below this, a table lists versions from 3.0.x down to 2.2.x, along with their respective Central repository links, usages, and dates. A 'Related Books' section at the bottom recommends 'Murach's Java Servlets and JSP, 3rd Edition (Murach: Training & Reference) (2014)'.

Version	Vulnerabilities	Repository	Usages	Date
3.0.x 3.0-alpha-1		Central	211	Apr 17, 2008
2.5.x 2.5		Central	7,922	Jul 17, 2006
		Central	3,861	Nov 08, 2005
2.4.x 2.4.public_draft		Central	13	Nov 08, 2005
		Central	6	Nov 08, 2005
2.3.x 2.3		Central	1,016	Nov 08, 2005
2.2.x 2.2		Central	50	Nov 08, 2005

**Related Books**

Murach's Java Servlets and JSP, 3rd Edition (Murach: Training & Reference) (2014)

# Maven Web Project in Eclipse

In pom.xml add the dependencies as shown below.

```
<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId> servlet-api</artifactId>
    <version>2.5</version>
</dependency>
```

Project Explorer X App.java \*PresentWebProject/pom.xml X MyWebApp/pom.xml

```
19     <maven.compiler.target>1.7</maven.compiler.target>
20   </properties>
21
22  <dependencies>
23    <dependency>
24      <groupId>junit</groupId>
25      <artifactId>junit</artifactId>
26      <version>4.11</version>
27      <scope>test</scope>
28    </dependency>
29    <dependency>
30      <groupId>javax.servlet</groupId>
31      <artifactId>servlet-api</artifactId>
32      <version>2.5</version>
33    </dependency>
34  </dependencies>
35
36  <build>
37    <finalName>PresentWebProject</finalName>
38    <pluginManagement><!-- lock down plugins versions to avoid using Maven defaults (may be moved to parent pom) -->
39      <plugins>
40        <plugin>
```

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

Markers Properties Servers Data Source Explorer Snippets Console X

No consoles to display at this time.

Writable

Insert

29 : 5 [138]



Project Explorer X

- > demo\_devops
- > MavenProject
- > MyFirstMaven
- > MyFirstWebProject
- < MyWebApp
  - > Deployment Descriptor: Archetype Created Web Application
  - > JRE System Library [JavaSE-1.7]
  - > Maven Dependencies
  - > Deployed Resources
  - > src
    - pom.xml
- > NewProject
- > PresentProject
- < PresentWebProject
  - > Deployment Descriptor: Archetype Created Web Application
  - > JRE System Library [JavaSE-1.7]
  - > Maven Dependencies
  - > Deployed Resources
  - > src
    - pom.xml
  - > target
    - pom.xml
- > Servers

App.java \*PresentWebProject/pom.xml X MyWebApp/pom.xml

```
19     <maven.compiler.target>1.7</maven.compiler.target>
20   </properties>
21
22   <dependencies>
23     <dependency>
24       <groupId>junit</groupId>
25       <artifactId>junit</artifactId>
26       <version>4.11</version>
27       <scope>test</scope>
28     </dependency>
29     <dependency>
30       <groupId>javax.servlet</groupId>
31       <artifactId>servlet-api</artifactId>
32       <version>2.5</version>
33     </dependency>
34   </dependencies>
35
36   <build>
37     <finalName>PresentWe
38   <pluginManagement><!
39     <plugins>
40       <plugin>
```

- New
- Open F3
- Show In Alt+Shift+W >
- Copy Ctrl+C
- Paste Ctrl+V
- Delete Delete
- Rename F2
- Debug Ctrl+Alt+D
- Start Ctrl+Alt+R
- Profile
- Stop Ctrl+Alt+S
- Publish Ctrl+Alt+P
- Clean...
- Add and Remove...
- Monitoring >
- Clean Tomcat Work Directory...
- Properties Alt+Enter

File Edit Navigate Search Project Run Design Window Help

Project Explorer X App.java PresentWebProject/pom.xml MyWebApp/pom.xml

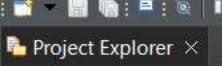
```
19     <maven.compiler.target>1.7</maven.compiler.target>
20   </properties>
21
22   <dependencies>
23     <dependency>
24       <groupId>junit</groupId>
25       <artifactId>junit</artifactId>
26       <version>4.11</version>
27       <scope>test</scope>
28     </dependency>
29     <dependency>
30       <groupId>javax.servlet</groupId>
31       <artifactId>servlet-api</artifactId>
32       <version>2.5</version>
33     </dependency>
34   </dependencies>
35
36   <build>
37     <finalName>PresentWebProject</finalName>
38     <pluginManagement><!-- lock down plugins versions to avoid using Maven defaults (may be moved to parent pom) -->
39       <plugins>
40         <plugin>
```

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

Markers Properties Servers Data Source Explorer Snippets Console X

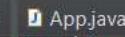
Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-11.0.13\bin\javaw.exe (29-Apr-2022, 4:24:06 PM) [pid: 1684]

```
Apr 29, 2022 4:24:09 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deployment of web application directory [C:\apache-tomcat-9.0.62\webapps\host-manager] has finished in [34] ms
Apr 29, 2022 4:24:09 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory [C:\apache-tomcat-9.0.62\webapps\manager]
Apr 29, 2022 4:24:09 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deployment of web application directory [C:\apache-tomcat-9.0.62\webapps\manager] has finished in [42] ms
Apr 29, 2022 4:24:09 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory [C:\apache-tomcat-9.0.62\webapps\ROOT]
Apr 29, 2022 4:24:09 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deployment of web application directory [C:\apache-tomcat-9.0.62\webapps\ROOT] has finished in [20] ms
Apr 29, 2022 4:24:09 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-nio-8081"]
Apr 29, 2022 4:24:09 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [1510] milliseconds
```

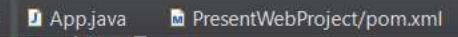


Project Explorer

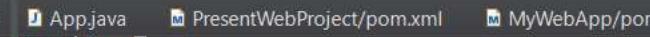
- > demo\_devops
- > MavenProject
- > MyFirstMaven
- > MyFirstWebProject
- < MyWebApp
  - > Deployment Descriptor: Archetype Created Web Application
  - > JRE System Library [JavaSE-1.7]
  - > Maven Dependencies
  - > Deployed Resources
  - > src
    - > pom.xml
  - > NewProject
  - > PresentProject
- < PresentWebProject
  - > Deployment Descriptor: Archetype Created Web Application
  - > JRE System Library [JavaSE-1.7]
  - > Maven Dependencies
  - > Deployed Resources
  - < src
    - < main
      - < webapp
        - > WEB-INF
        - > index.jsp
  - > target
    - > pom.xml
- > Servers



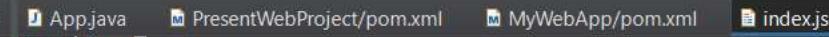
App.java



PresentWebProject/pom.xml

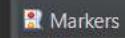


MyWebApp/pom.xml

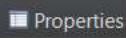


index.jsp

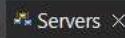
```
1<html>
2<body>
3 <h2>Hello World!</h2>
4 </body>
5 </html>
6
```



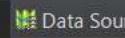
Markers



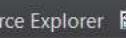
Properties



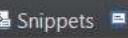
Servers



Data Source Explorer



Snippets



Console

Tomcat v9.0 Server at localhost [Started, Synchronized]

Writable

Smart Insert

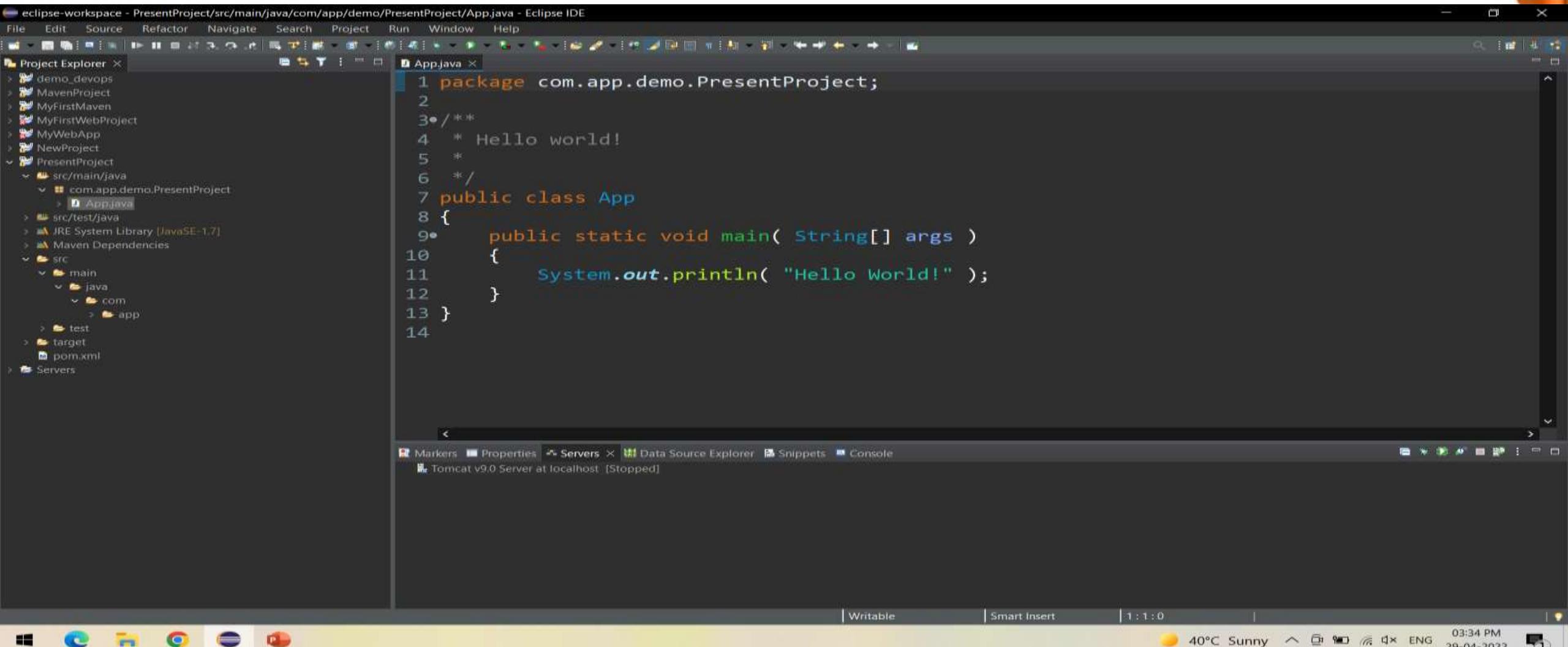
1:1:0



37°C Sunny

04:24 PM  
29-04-2022

In the created project, Check for index.jsp file containing Hello World program



The screenshot shows the Eclipse IDE interface with a Java project named "PresentProject". The "App.java" file is open in the editor, displaying the following code:

```
1 package com.app.demo.PresentProject;
2
3 /**
4 * Hello world!
5 *
6 */
7 public class App
8 {
9     public static void main( String[] args )
10    {
11        System.out.println( "Hello World!" );
12    }
13 }
```

The "Servers" view at the bottom indicates that a Tomcat v9.0 Server is running at localhost [Stopped]. The system tray at the bottom right shows the date and time as 03:34 PM, 29-04-2022, with a temperature of 40°C and weather status of Sunny.



# Right click on your project and Run As Maven Clean - It clears out the existing classes that you compiled from last compile

The screenshot shows the Eclipse IDE interface with the title "eclipse-workspace - PresentProject/src/main/java/com/app/demo/PresentProject/App.java - Eclipse IDE". The "Project Explorer" view on the left lists several projects, including "PresentProject". A context menu is open over "PresentProject", with the "Run As" option highlighted. The "Run As" submenu is displayed, showing various Maven-related options: 1 Java Application, 2 JUnit Test, 3 Maven build, 4 Maven build..., 5 Maven clean, 6 Maven generate-sources, 7 Maven install, 8 Maven test, and Run Configurations... The submenu has a red border around the "5 Maven clean" option, indicating it is selected.

```
1 package com.app.demo.PresentProject;
2
3 /**
4  * Hello world!
5  *
6  */
7 public class App
8 {
9     public static void main( String[] args )
10    {
11        System.out.println( "Hello World!" );
12    }
13 }
14
```

# Check the console for Build Success

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - PresentProject/src/main/java/com/app/demo/PresentProject/App.java - Eclipse IDE
- Menu Bar:** File Edit Source Refactor Navigate Search Project Run Window Help
- Toolbar:** Standard Eclipse toolbar icons.
- Project Explorer:** Shows several projects: demo\_devops, MavenProject, MyFirstMaven, MyFirstWebProject, MyWebApp, NewProject, PresentProject, and Servers.
- Editor:** The file App.java is open, displaying the following code:

```
1 package com.app.demo.PresentProject;
2
3 /**
4  * Hello world!
5  *
6 */
7 public class App
8 {
9     public static void main( String[] args )
10    {
11        System.out.println( "Hello World!" );
12    }
13 }
14
```
- Console:** Shows the build log output:

```
<terminated> C:\Program Files\Java\jdk-11.0.13\bin\javaw.exe (29-Apr-2022, 3:34:55 PM) (pid: 10212)
[INFO] Scanning for projects...
[INFO]
[INFO] --- < com.app.demo:PresentProject >
[INFO] Building PresentProject 0.0.1-SNAPSHOT
[INFO]   [ jar ]
[INFO]
[INFO] --- maven-clean-plugin:3.1.0:clean (default-clean) @ PresentProject ---
[INFO] Deleting C:\Users\Madhu\eclipse-workspace\PresentProject\target
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time:  0.384 s
[INFO] Finished at: 2022-04-29T15:34:57+05:30
[INFO]
```
- Bottom Status Bar:** Writable, Smart Insert, 1:1:0, battery icon, 40°C Sunny, 3:35 PM, 29-04-2022.



Kmitl  
Right click on your project and Run As Maven Install - to add artifact(s)  
to the local repository

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - PresentProject/src/main/java/com/app/demo/PresentProject/App.java - Eclipse IDE
- Menu Bar:** File, Edit, Source, Refactor, Refactor, Navigate, Search, Project, Run, Window, Help
- Toolbar:** Standard Eclipse toolbar with icons for file operations, search, and run.
- Project Explorer:** Shows several projects: demo\_devos, MavenProject, MyFirstMaven, MyFirstWebProject, MyWebApp, NewProject, and PresentProject. The PresentProject node is selected and has a context menu open.
- Code Editor:** Displays the `App.java` file with the following code:

```
1 package com.app.demo.PresentProject;
2
3 /**
4  * Hello world!
5  *
6  */
7 public class App
8 {
9     public static void main( String[] args )
10    {
11        System.out.println( "Hello World!" );
12    }
13 }
```
- Run Configuration Dialog:** A modal dialog is open under the "Run As" section, listing various run configurations for the "PresentProject" project.
- Console:** Shows the output of the Maven build process, indicating successful compilation and execution of the application.
- System Tray:** Shows the Windows taskbar with icons for Start, Task View, File Explorer, and other system applications.

# Check the console for Build Success

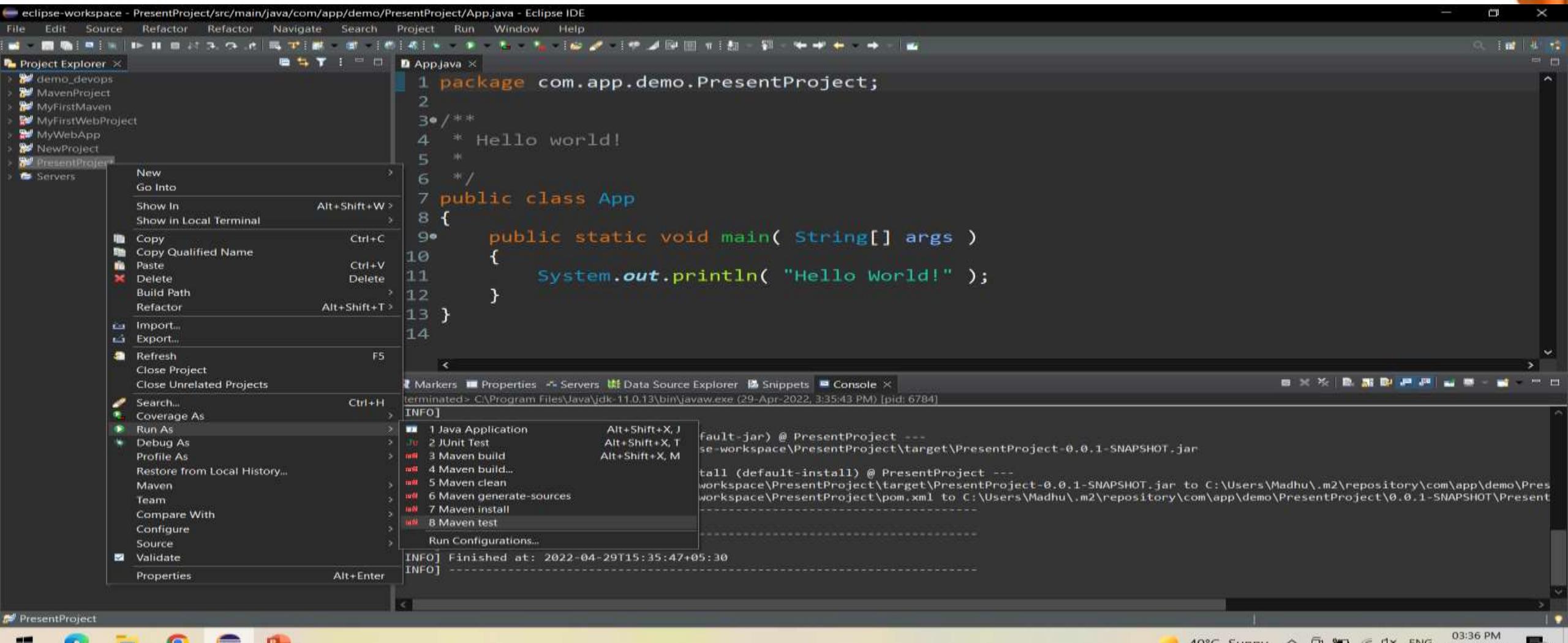
The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows several projects: demo\_devops, MavenProject, MyFirstMaven, MyFirstWebProject, MyWebApp, NewProject, PresentProject, and Servers.
- Editor:** Displays the file `App.java` containing the following code:

```
1 package com.app.demo.PresentProject;
2
3 /**
4  * Hello world!
5  *
6  */
7 public class App
8 {
9     public static void main( String[] args )
10    {
11        System.out.println( "Hello World!" );
12    }
13 }
14
```
- Console:** Shows the output of a Maven build:

```
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ PresentProject ---
[INFO] Building jar: C:\Users\Madhu\eclipse-workspace\PresentProject\target\PresentProject-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ PresentProject ---
[INFO] Installing C:\Users\Madhu\eclipse-workspace\PresentProject\target\PresentProject-0.0.1-SNAPSHOT.jar to C:\Users\Madhu\.m2\repository\com\app\demo\Pres
[INFO] Installing C:\Users\Madhu\eclipse-workspace\PresentProject\pom.xml to C:\Users\Madhu\.m2\repository\com\app\demo\PresentProject\0.0.1-SNAPSHOT\Present
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time:  3.235 s
[INFO] Finished at: 2022-04-29T15:35:47+05:30
[INFO] ---
```
- Taskbar:** Shows icons for various applications including a browser, file explorer, and terminal.
- System Tray:** Shows the date and time (03:35 PM, 29-04-2022), battery level (40°C), and network status.

# Right click on your project and Run As Maven Install - use to specify test classes or methods we want to execute



# Check the console for Build Success

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - PresentProject/src/main/java/com/app/demo/PresentProject/App.java - Eclipse IDE
- Menu Bar:** File, Edit, Source, Refactor, Refactor, Navigate, Search, Project, Run, Window, Help
- Toolbar:** Standard Eclipse toolbar icons.
- Project Explorer View:** Shows several projects: demo\_devops, MavenProject, MyFirstMaven, MyFirstWebProject, MyWebApp, NewProject, PresentProject, and Servers.
- Editor View:** Displays the code for App.java:

```
1 package com.app.demo.PresentProject;
2
3 /**
4  * Hello world!
5  *
6  */
7 public class App
8 {
9     public static void main( String[] args )
10    {
11        System.out.println( "Hello World!" );
12    }
13 }
```
- Console View:** Shows the build output for com.app.demo.PresentProject.AppTest:

```
[INFO] -----
[INFO] Running com.app.demo.PresentProject.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.037 s - in com.app.demo.PresentProject.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.169 s
[INFO] Finished at: 2022-04-29T15:36:14+05:30
[INFO] -----
```
- System Tray:** Shows icons for Task View, Start, Google Chrome, and others.
- System Status:** Shows weather (40°C Sunny), battery level, and system date (29-04-2022 03:36 PM).

Right click on your project and Run As Maven Install - Compiles source code of the project, Creates WAR file for the project to convert it into a distributable format.

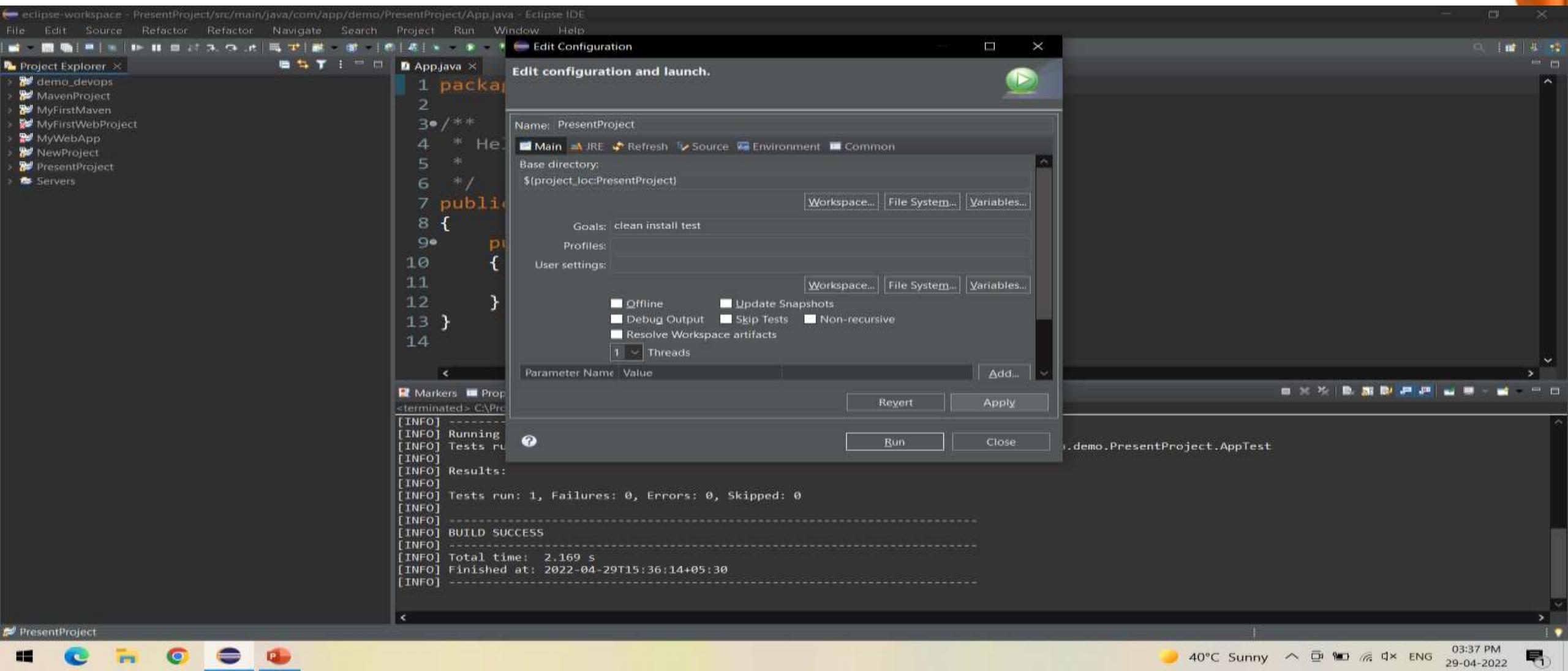
The screenshot shows the Eclipse IDE interface with the following details:

- Top Bar:** eclipse-workspace - PresentProject/src/main/java/com/app/demo/PresentProject/App.java - Eclipse IDE. Includes File, Edit, Source, Refactor, Navigate, Project, Run, Window, Help menus.
- Toolbar:** Standard Eclipse toolbar with icons for New, Open, Save, Cut, Copy, Paste, Find, etc.
- Project Explorer:** Shows a tree view of projects: demo\_devops, MavenProject, MyFirstMaven, MyFirstWebProject, MyWebApp, NewProject, and PresentProject (selected). Context menu for PresentProject is open, showing options like New, Go Into, Show In, Copy, Paste, Delete, Build Path, Refactor, Import..., Export..., Refresh, Close Project, Close Unrelated Projects, Search..., Coverage As, Run As, Debug As, Profile As, Restore from Local History..., Maven, Team, Compare With, Configure, Source, Validate, Properties, and Alt+Enter.
- Code Editor:** The main editor window displays the Java code for App.java:

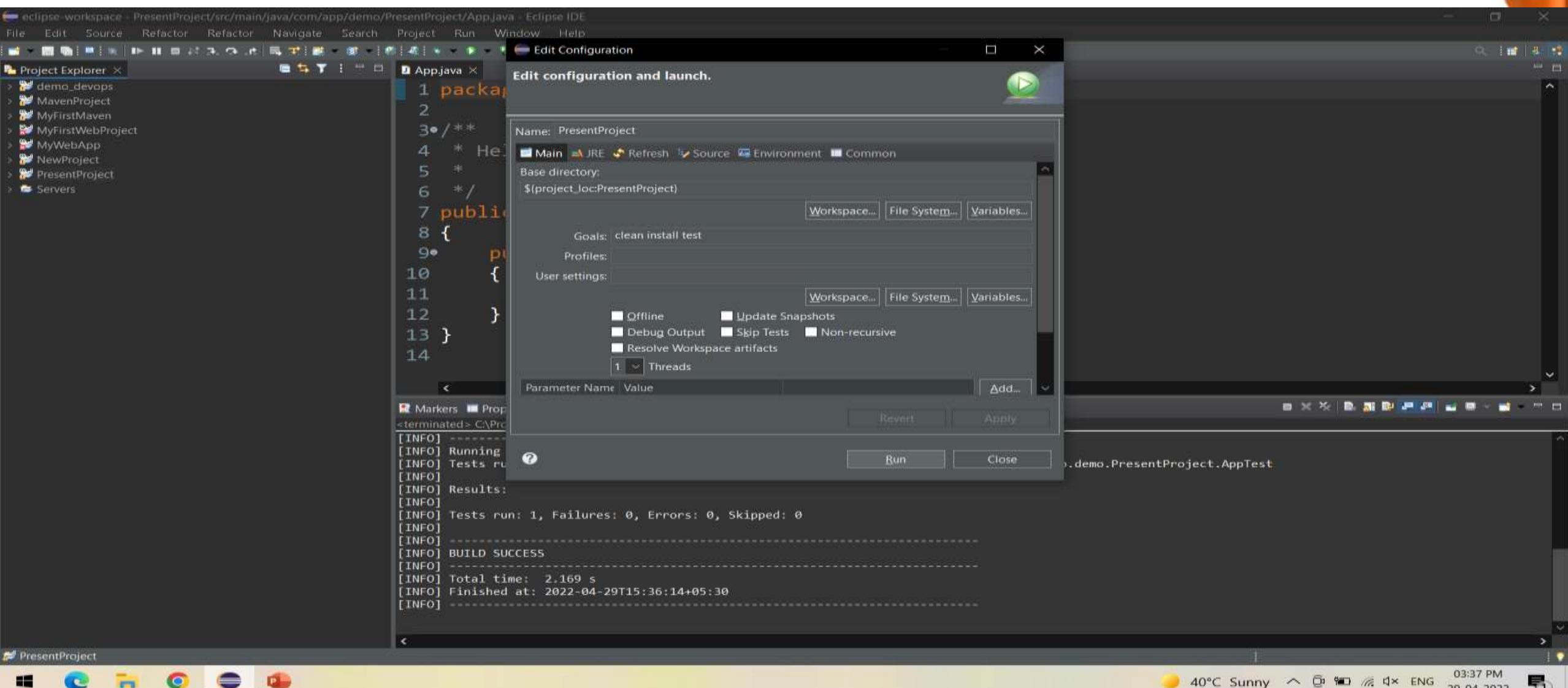
```
1 package com.app.demo.PresentProject;
2
3 /**
4  * Hello world!
5  *
6  */
7 public class App
8 {
9     public static void main( String[] args )
10    {
11        System.out.println( "Hello World!" );
12    }
13 }
14
```
- Console View:** Shows the output of a Java application run. It includes a list of run configurations and the following log:

```
<terminated> C:\Program Files\Java\jdk-11.0.13\bin\javaw.exe (29-Apr-2022, 3:36:10 PM) [pid: 6812]
[INFO] -----
1 Java Application           Alt+Shift+X, J  ct.AppTest
: 0, Skipped: 0, Time elapsed: 0.037 s - in com.app.demo.PresentProject.AppTest
2 JUnit Test                 Alt+Shift+X, T
3 Maven build                Alt+Shift+X, M
4 Maven build...
5 Maven clean...
6 Maven generate-sources...
7 Maven install...
8 Maven test...
-----
Run Configurations...
[INFO] Finished at: 2022-04-29T15:36:14+05:30
[INFO] -----
```
- Bottom Bar:** Shows system tray icons for battery, signal, volume, and network. The status bar indicates the date (29-04-2022), time (03:36 PM), weather (40°C Sunny), and language (ENG).

# Specify the goals as – Clean Install Test -> Click on Apply



# Click on Run



# Check for Build Success in Console

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows several projects: demo\_devops, MavenProject, MyFirstMaven, MyFirstWebProject, MyWebApp, NewProject, PresentProject, and Servers.
- Code Editor:** Displays the `App.java` file with the following code:

```
1 package com.app.demo.PresentProject;
2
3 /**
4  * Hello world!
5  */
6
7 public class App
8 {
9     public static void main( String[] args )
10    {
11        System.out.println( "Hello World!" );
12    }
13 }
14
```
- Console:** Shows the Maven build output:

```
<terminated> PresentProject [Maven Build] C:\Program Files\Java\jdk-11.0.13\bin\javaw.exe (29-Apr-2022, 3:37:40 PM - 3:37:45 PM) [pid: 3488]
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\Madhu\eclipse-workspace\PresentProject\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ PresentProject ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ PresentProject ---
[INFO] Skipping execution of surefire because it has already been run for this configuration
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 3.003 s
[INFO] Finished at: 2022-04-29T15:37:45+05:30
[INFO]
```
- System Tray:** Shows the date and time as 03:38 PM, 29-04-2022, and the weather as 40°C Sunny.

## Project Explorer X

- > demo\_devops
- > MavenProject
- > MyFirstMaven
- > MyFirstWebProject
- < MyWebApp
  - > Deployment Descriptor: Archetype Created Web Application
  - > JRE System Library [JavaSE-1.7]
  - > Maven Dependencies
  - > Deployed Resources
  - > src
    - pom.xml
  - > NewProject
  - > PresentProject
- < PresentWebProject
  - > Deployment Descriptor: Archetype Created Web Application
  - > JRE System Library [JavaSE-1.7]
  - > Maven Dependencies
  - > Deployed Resources
  - < src
    - < main
      - < webapp
        - WEB-INF
        - index.jsp
  - > target  - > Servers

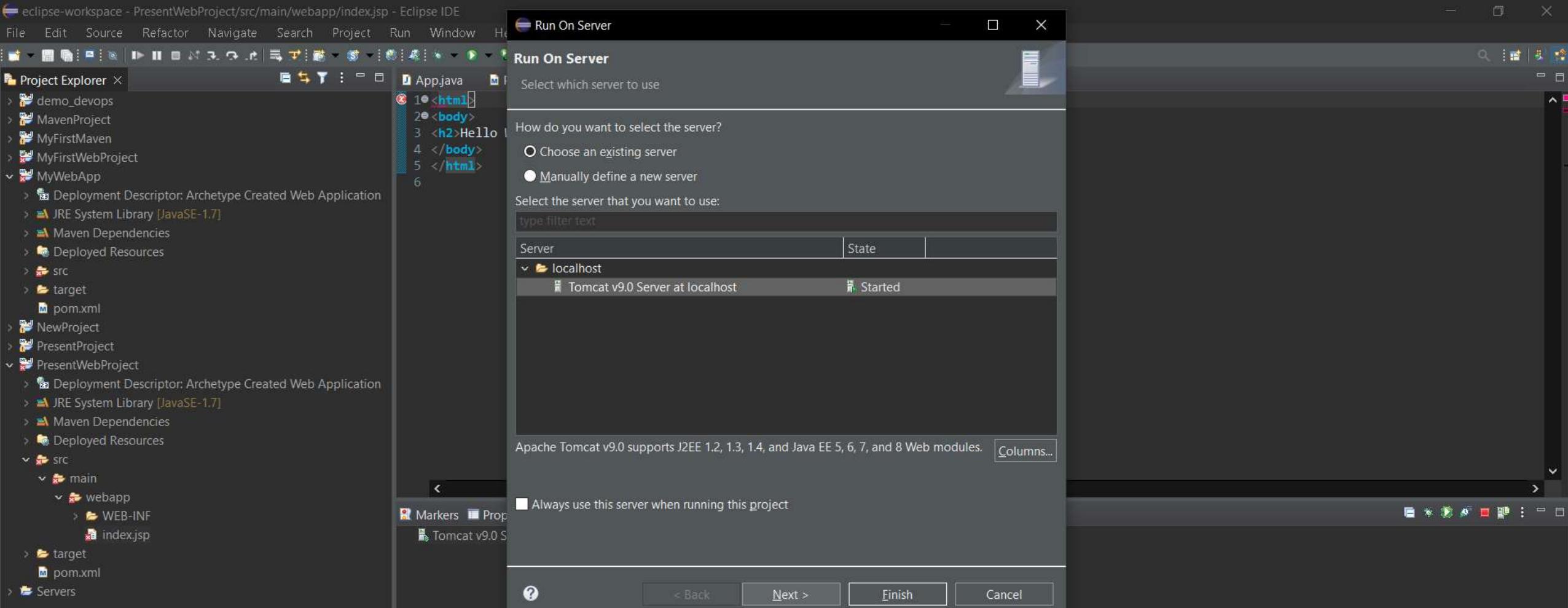
App.java PresentWebProject/pom.xml MyWebApp/pom.xml index.jsp X

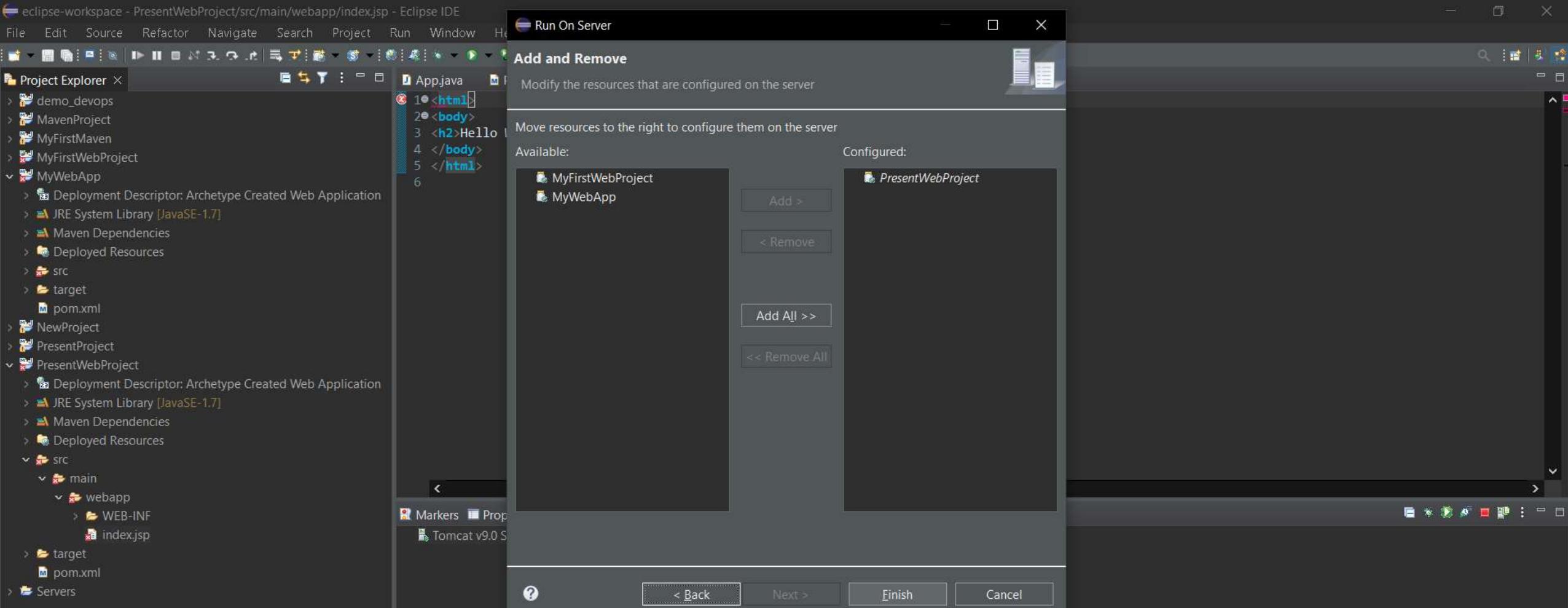
```
1<!DOCTYPE html>
2<html>
3 <body>
4   <h2>Hello World!</h2>
5 </body>
6 </html>
```

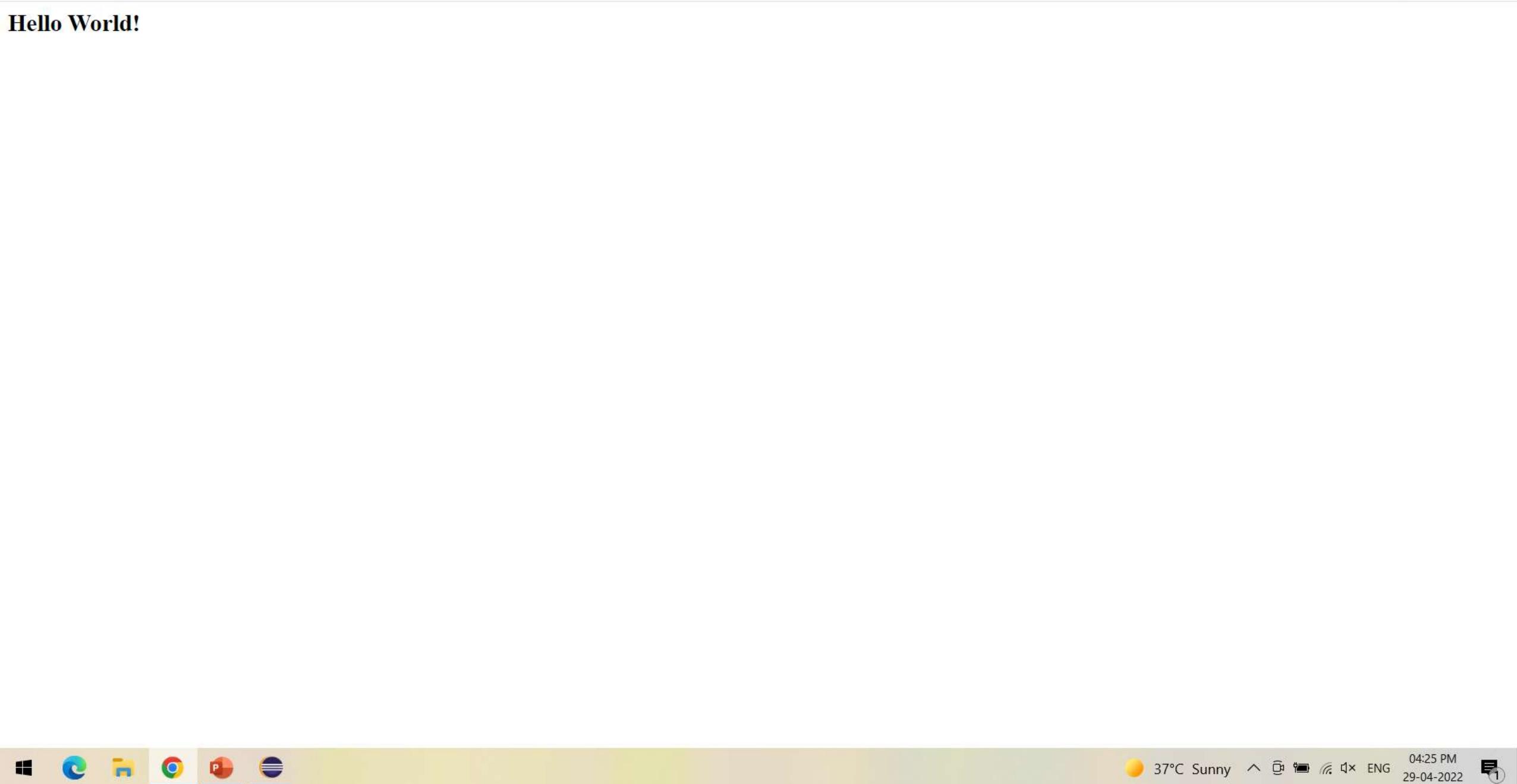
- Undo Text Change Ctrl+Z
- Revert File
- Save Ctrl+S
- Open With >
- Show In Alt+Shift+W >
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Quick Fix Ctrl+1
- Source >
- Refactor >
- Add to Snippets...
- Properties
- Open Selection F3
- Coverage As >
- Run As >
- Debug As >
- Profile As >
- Team >
- Compare With >
- Replace With >
- Validate
- Preferences...

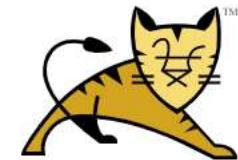
1 Run on Server

Run Configurations...









## Tomcat Web Application Manager

Message: OK

### Manager

[List Applications](#) [HTML Manager Help](#) [Manager Help](#) [Server Status](#)

### Applications

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy
					Expire sessions with idle ≥ 30 minutes
/PresentWebProject	None specified	Archetype Created Web Application	true	1	Start Stop Reload Undeploy
					Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy
					Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy
					Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy
					Expire sessions with idle ≥ 30 minutes
/test	None specified	Archetype Created Web Application	true	0	Start Stop Reload Undeploy
					Expire sessions with idle ≥ 30 minutes
/webapplication	None specified	Archetype Created Web Application	true	0	Start Stop Reload Undeploy

budarajumadhurika/PresentProj x Dashboard [Jenkins] x /manager x +

github.com/budarajumadhurika/PresentProject

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Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Pin Unwatch 1 + New repository Import repository New gist New organization

main ▾ 1 branch 0 tags

Go to file

Add file ▾

Code ▾

budarajumadhurika Demo for Team

1cc12d8 26 minutes ago 2 commits

.settings

Demo for Team

26 minutes ago

src

Demo for Team

26 minutes ago

.classpath

Demo for Team

26 minutes ago

.gitignore

Initial commit

33 minutes ago

.project

Demo for Team

26 minutes ago

pom.xml

Demo for Team

26 minutes ago

Help people interested in this repository understand your project by adding a README.

Add a README

## About

Demo Project for Team

0 stars

1 watching

0 forks

## Releases

No releases published

Create a new release

## Packages

No packages published

Publish your first package

## Languages



## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?  
[Import a repository.](#)

Owner \*



budarajumadhurika ▾

Repository name \*

PresentWebProject



Great repository names are short and memorable. Need inspiration? How about [sturdy-engine](#)?

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

Add a README file

This is where you can write a long description for your project. [Learn more](#).

Add .gitignore

Choose which files not to track from a list of templates. [Learn more](#).

.gitignore template: None ▾

Choose a license

A license tells others what they can and can't do with your code. [Learn more](#).

License: None ▾

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main ▾ 1 branch 0 tags Go to file Add file ▾ Code ▾

budarajumadhurika Initial commit 8323558 now 1 commit

README.md Initial commit now

README.md

# PresentWebProject

About

No description, website, or topics provided.

Readme 0 stars 0 watching 0 forks

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

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37°C Sunny 04:27 PM 29-04-2022

budarajumadhurika/PresentWebProject x Dashboard [Jenkins] x /manager x | +

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All Apps Documents Web More

Best match

- Git Bash App
- Git GUI
- Git CMD

Search the web

git - See web results

Websites (1)

Open Run as administrator Open file location Pin to Start Pin to taskbar Uninstall

Git Bash App

8323558 now 1 commit now

Add file Code

Settings

About

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Readme 0 stars 0 watching 0 forks

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Pricing API Training Blog About

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git

Windows Taskbar

budarajumadhurika/PresentWebProject

Dashboard [Jenkins]

/manager

MINGW64:/c/Users/Madhu

```
Madhu@DESKTOP-9IS9ERN MINGW64 ~
$ git clone https://github.com/budarajumadhurika/PresentWebProject.git
```

plore

Pin Watch 0 Fork 0 Star 0

Security Insights Settings

Go to file Add file Code

Clone HTTPS SSH GitHub CLI  
https://github.com/budarajumadhurika/PresentWebProject

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

About

No description, website, or topics provided.

Readme

0 stars

0 watching

0 forks

Releases

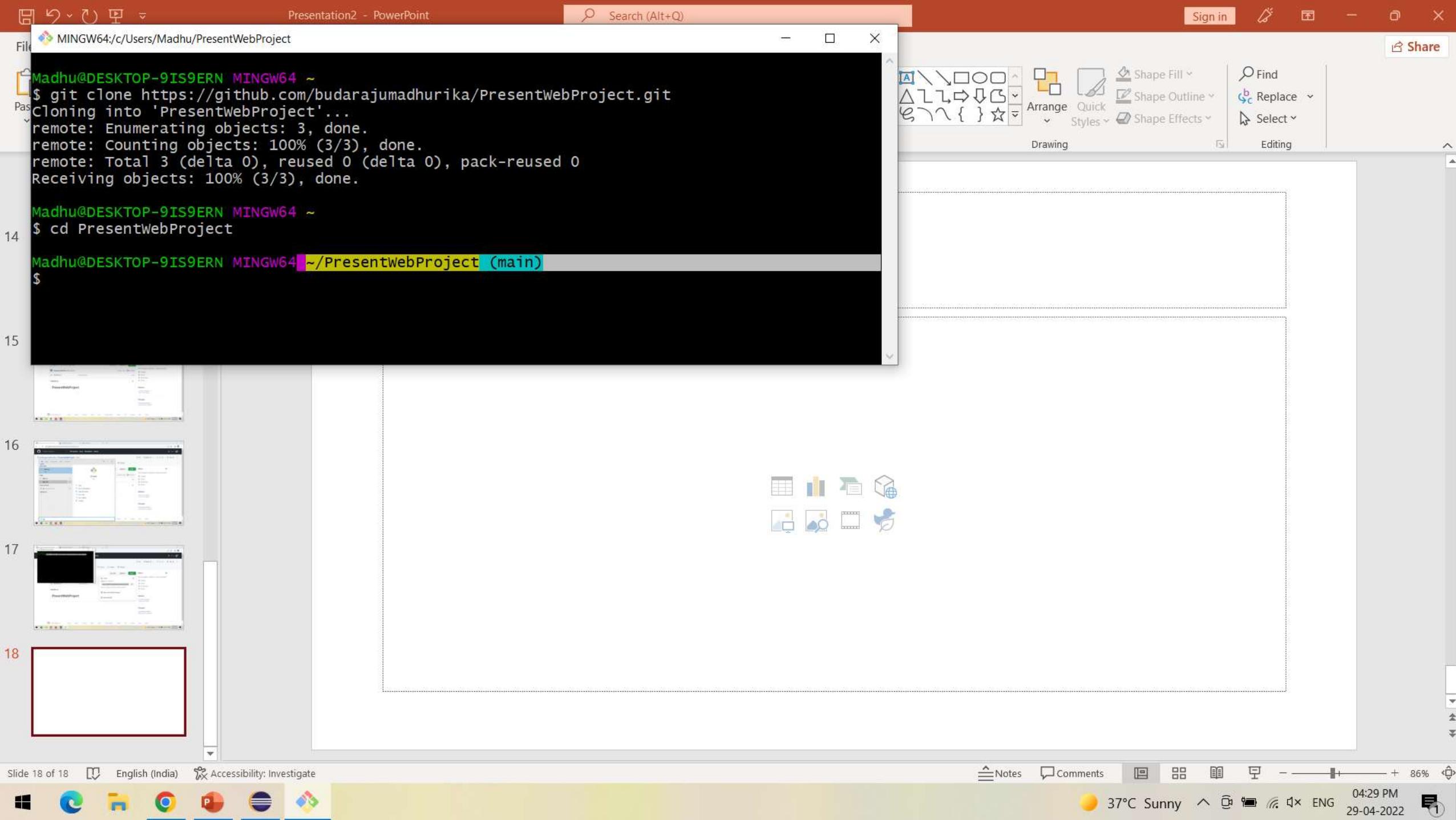
No releases published

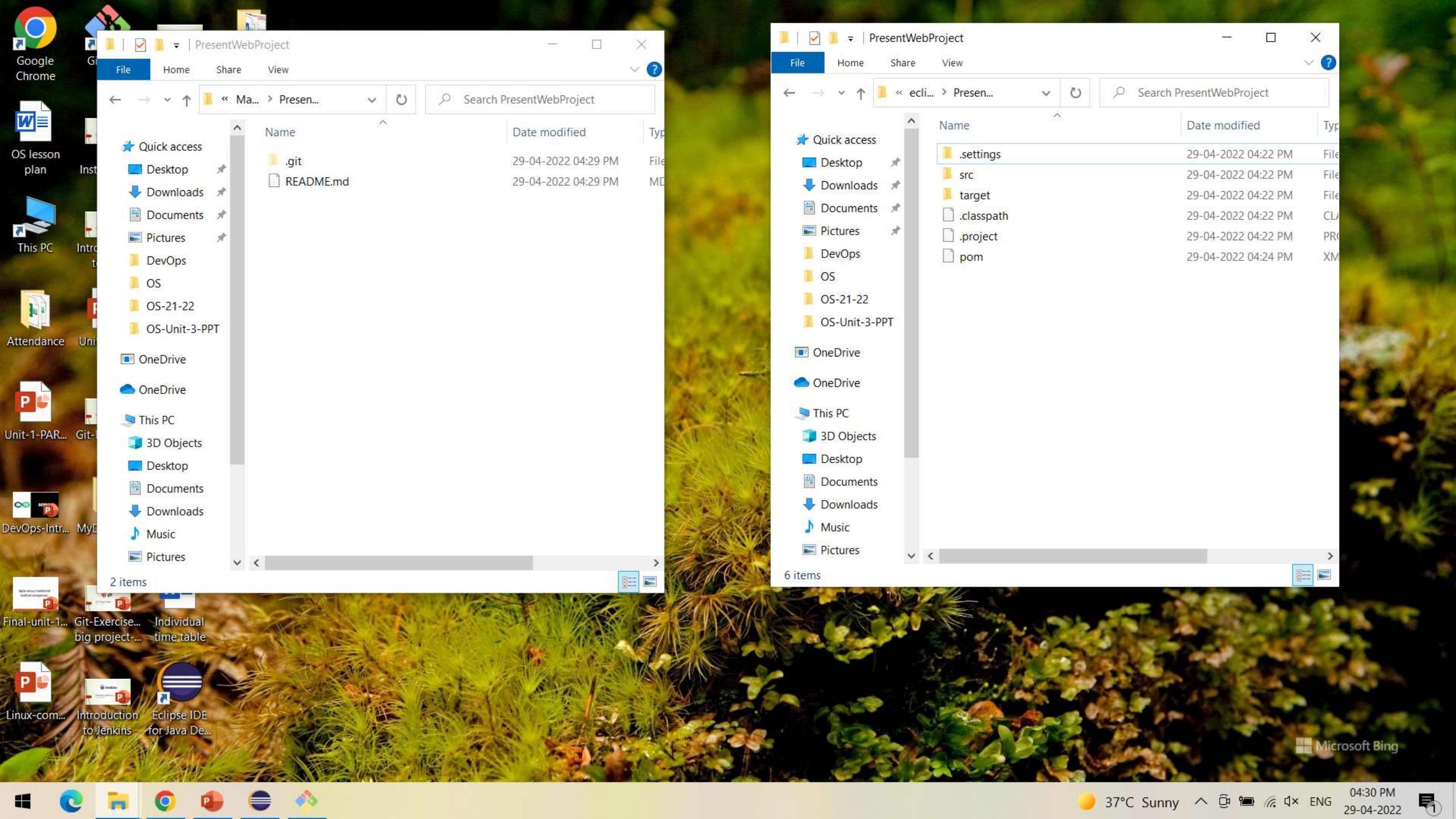
Create a new release

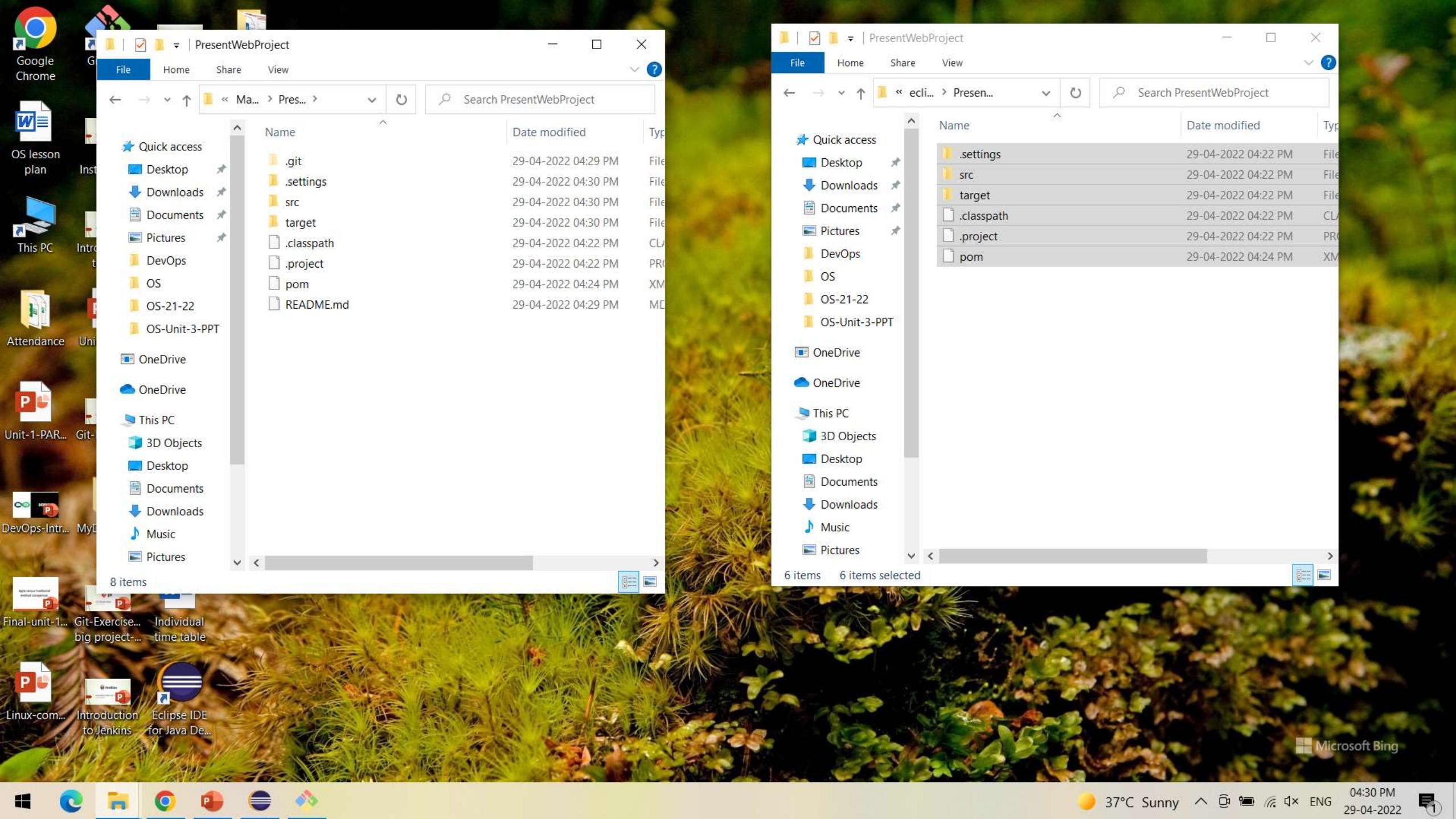
Packages

No packages published

Publish your first package







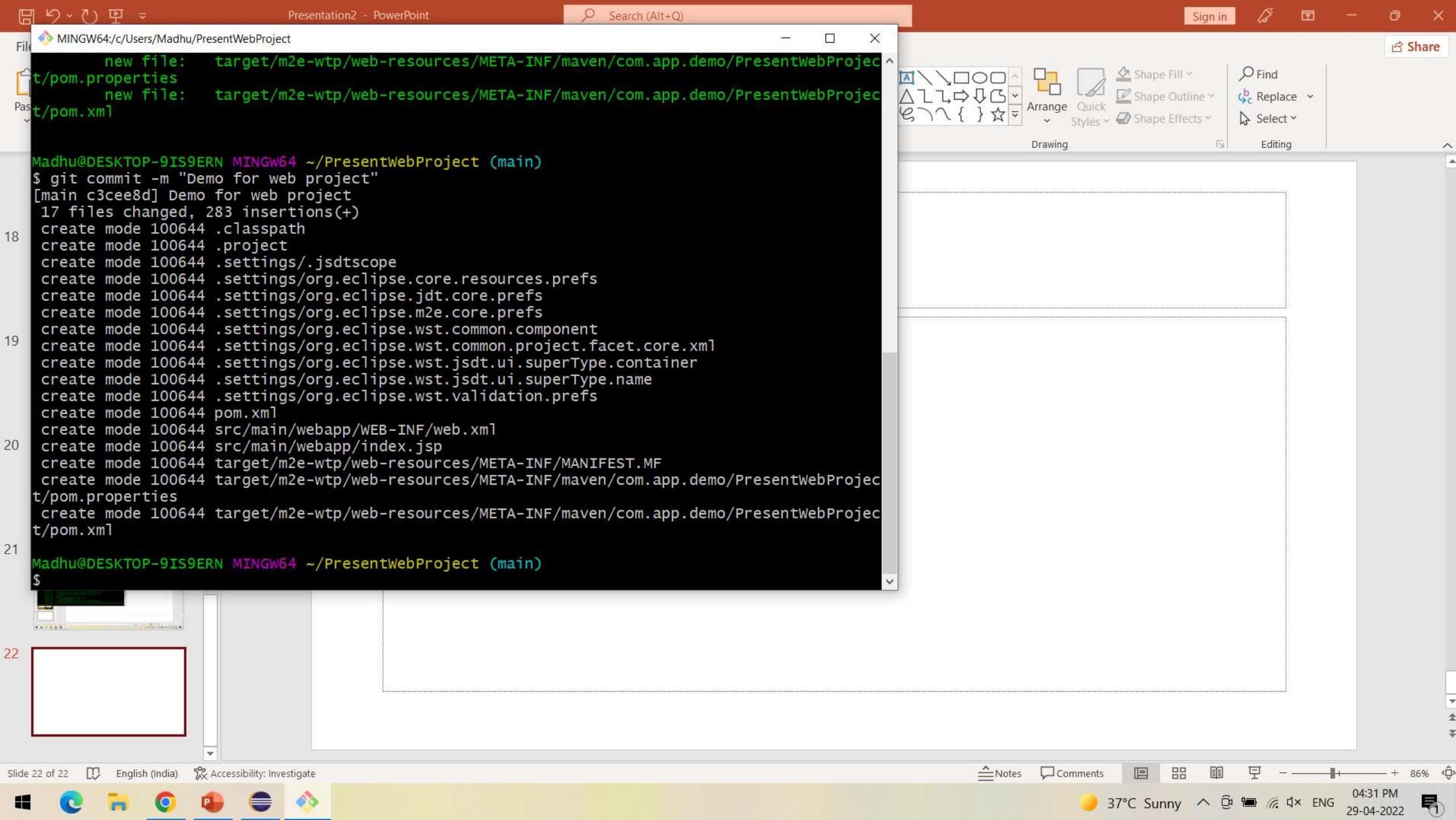
MINGW64:/c/Users/Madhu/PresentWebProject

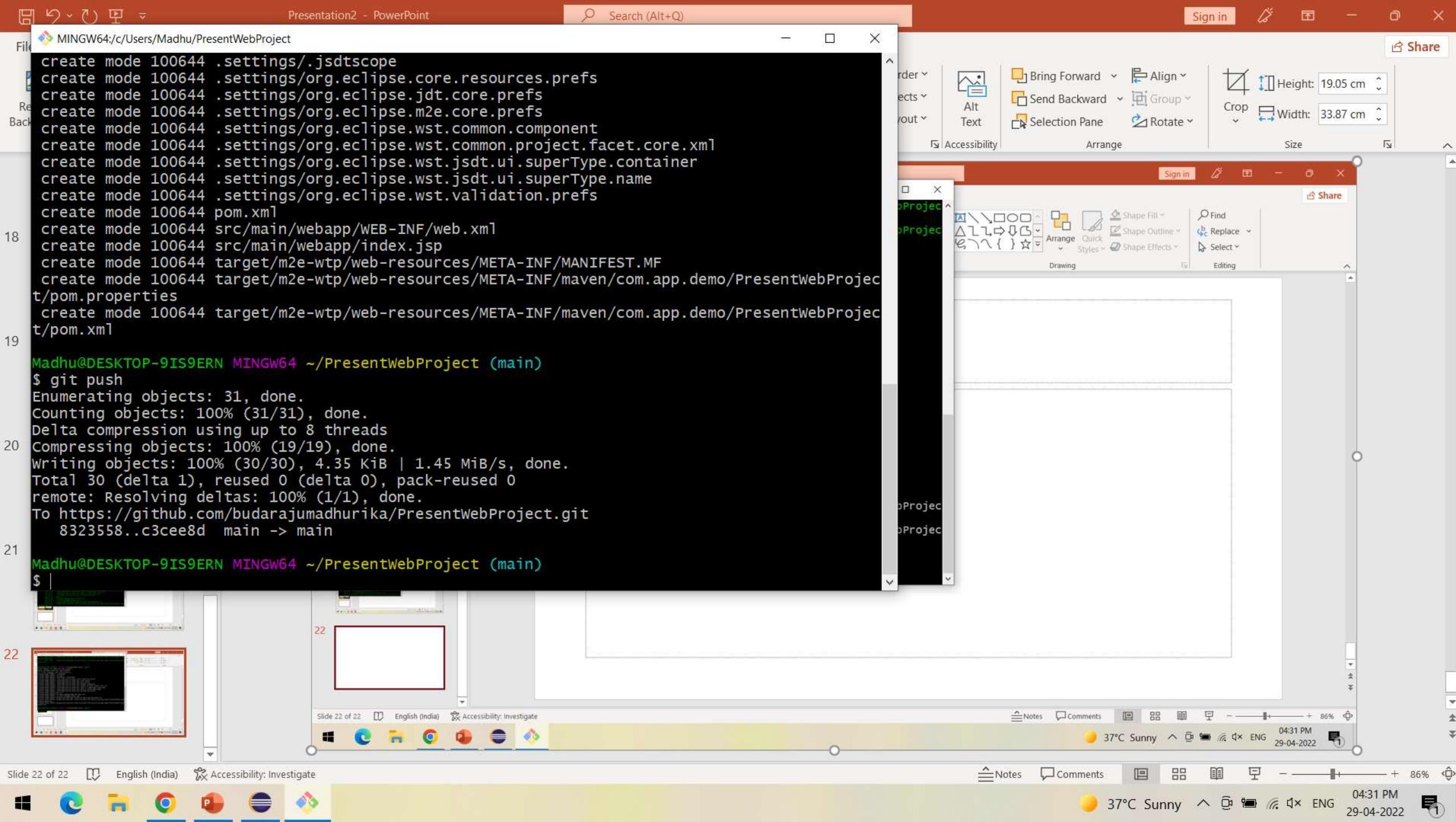
```
Madhu@DESKTOP-9IS9ERN MINGW64 ~/PresentWebProject (main)
$ git add .
warning: LF will be replaced by CRLF in src/main/webapp/WEB-INF/web.xml.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/main/webapp/index.jsp.
The file will have its original line endings in your working directory

Madhu@DESKTOP-9IS9ERN MINGW64 ~/PresentWebProject (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
(use "git restore --staged <file>..." to unstage)
  new file:  .classpath
  new file:  .project
  new file:  .settings/.jsdtscope
  new file:  .settings/org.eclipse.core.resources.prefs
  new file:  .settings/org.eclipse.jdt.core.prefs
  new file:  .settings/org.eclipse.m2e.core.prefs
  new file:  .settings/org.eclipse.wst.common.component
  new file:  .settings/org.eclipse.wst.common.project.facet.core.xml
  new file:  .settings/org.eclipse.wst.jsdt.ui.superType.container
  new file:  .settings/org.eclipse.wst.jsdt.ui.superType.name
  new file:  .settings/org.eclipse.wst.validation.prefs
  new file:  pom.xml
  new file:  src/main/webapp/WEB-INF/web.xml
  new file:  src/main/webapp/index.jsp
  new file:  target/m2e-wtp/web-resources/META-INF/MANIFEST.MF
  new file:  target/m2e-wtp/web-resources/META-INF/maven/com.app.demo/PresentWebProjec
t/pom.properties
```







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Pin Unwatch 1 Fork 0 Star 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

budarajumadhurika Demo for web project c3cee8d 32 seconds ago 2 commits

.settings Demo for web project 33 seconds ago

src/main/webapp Demo for web project 33 seconds ago

target/m2e-wtp/web-resources/MET... Demo for web project 33 seconds ago

.classpath Demo for web project 33 seconds ago

.project Demo for web project 33 seconds ago

README.md Initial commit 4 minutes ago

pom.xml Demo for web project 33 seconds ago

README.md

PresentWebProject

About

No description, website, or topics provided.

Readme 0 stars 1 watching 0 forks

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Languages

Java 100.0%

37°C Sunny 04:32 PM 29-04-2022