

Week 7,8

Aim: Create the necessary servlets for the application chosen.

Scenario 1: Check the authenticity of the login details with the information available in database. If he is a valid user it must redirect to site resources otherwise it should stay in same page with invalid username/password message.

Scenario 2: Insert the details of the registration page into the database. If registration is successful it must display “Registration is successful”.

Scenario 3: Update the password field in the database

Step-1:

Download apache maven from <https://maven.apache.org/download.cgi>

The screenshot shows the Apache Maven download page for version 3.8.6. The left sidebar has a 'Download' section selected. The main content area is titled 'Downloading Apache Maven 3.8.6'. It includes a note about the latest release being 3.8.6, a mirror selection dropdown, and a 'System Requirements' table. The 'System Requirements' table lists Java Development Kit (JDK) requirements (3.3+), memory requirements (no minimum), disk space requirements (approx. 10MB), and operating system requirements (no minimum). Below this is a 'Files' section with a table of download links, checksums, and signatures for different archive formats: Binary tar.gz, Binary zip, and Source tar.gz.

Link	Checksums	Signature
Binary tar.gz archive	apache-maven-3.8.6-bin.tar.gz	apache-maven-3.8.6-bin.tar.gz.asc
Binary zip archive	apache-maven-3.8.6-bin.zip	apache-maven-3.8.6-bin.zip.asc
Source tar.gz archive	apache-maven-3.8.6-src.tar.gz	apache-maven-3.8.6-src.tar.gz.asc

Download apache-maven-3.8.6-bin.zip and extract the zip file.

After installing set the **bin path** in the Environment variables

To check whether Maven is installed successful or not open command prompt type command as **mvn --version**

```

Administrator: Command Prompt
Microsoft Windows [Version 10.0.22000.739]
(c) Microsoft Corporation. All rights reserved.

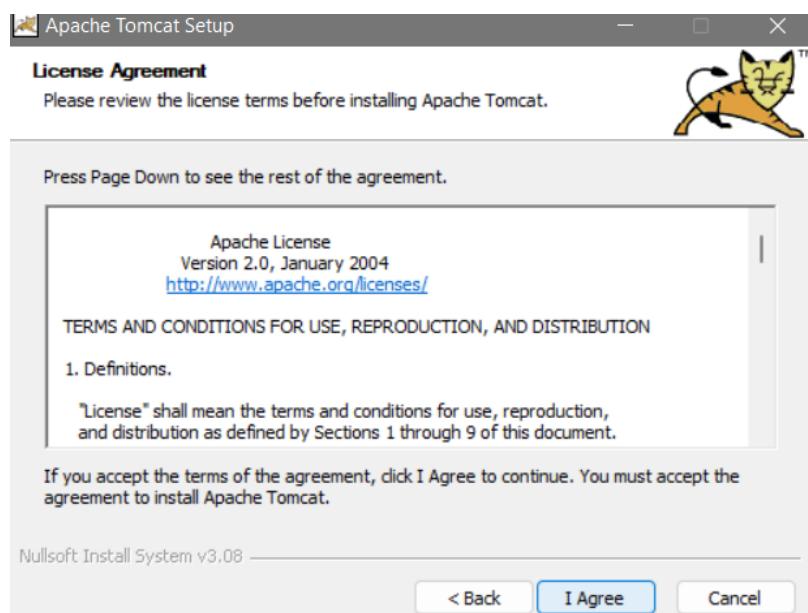
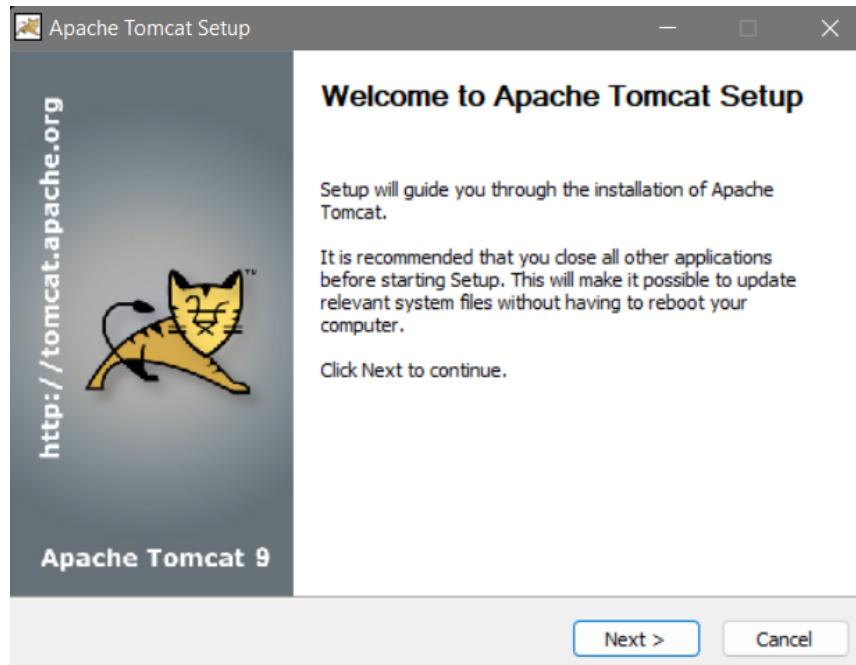
C:\Users\hp>mvn --version
Apache Maven 3.8.5 (3599d3414f046de2324203b78ddcf9b5e4388aa0)
Maven home: G:\sem6\gayathri\web-tech\apache-maven-3.8.5-bin
Java version: 18.0.1.1, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk-18.0.1.1
Default locale: en_IN, platform encoding: UTF-8
OS name: "windows 11", version: "10.0", arch: "amd64", family: "windows"

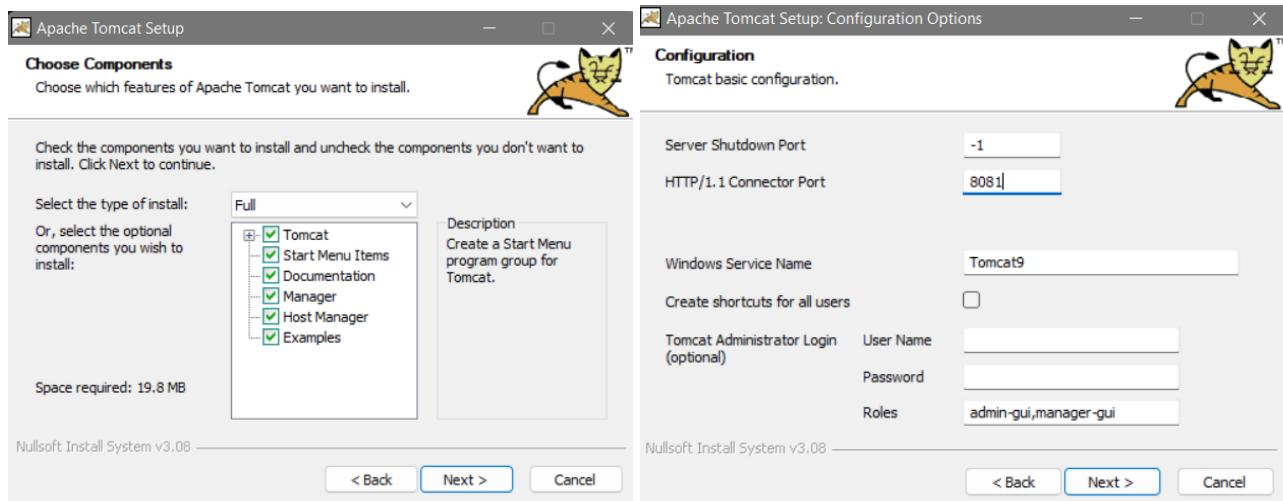
C:\Users\hp>

```

Step-2: Download Apache Tomcat

Download and install the Apache Tomcat 9.0 from <https://tomcat.apache.org/download90.cgi> and open the application





Click on install

Step-3: Next copy the Tomcat location where you have installed it. Now open Environment Variables and create New System Variable where variable name should be CATALINA_HOME and variable value is Tomcat location that you already copied.

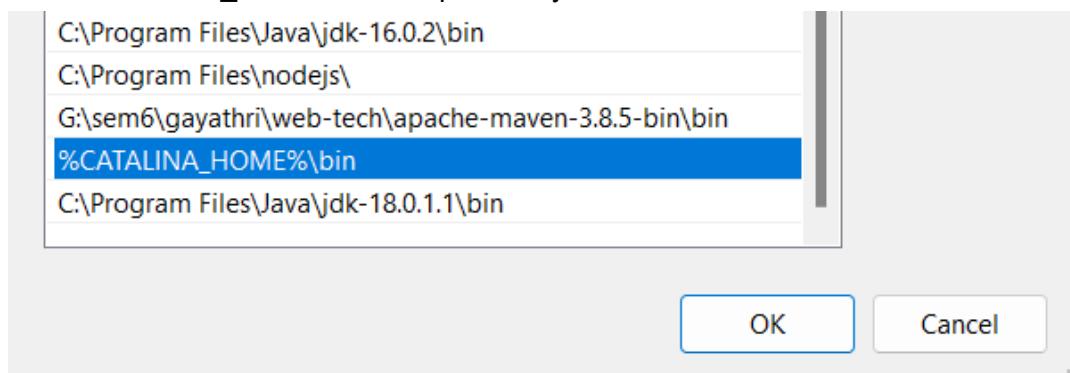
System variables	
Variable	Value
AMDRMSDKPATH	C:\Program Files\AMD\RyzenMasterSDK\
CATALINA_HOME	C:\Program Files\Apache Software Foundation\Tomcat 9.0
CLASSPATH	C:\Program Files\Apache Software Foundation\Tomcat 9.0\lib...
ComSpec	C:\WINDOWS\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
GIT_LFS_PATH	C:\Program Files\Git LFS
JAVA_HOME	C:\Program Files\Java\jdk-18.0.1.1
NUMBER_OF_PROCESSORS	2

New...

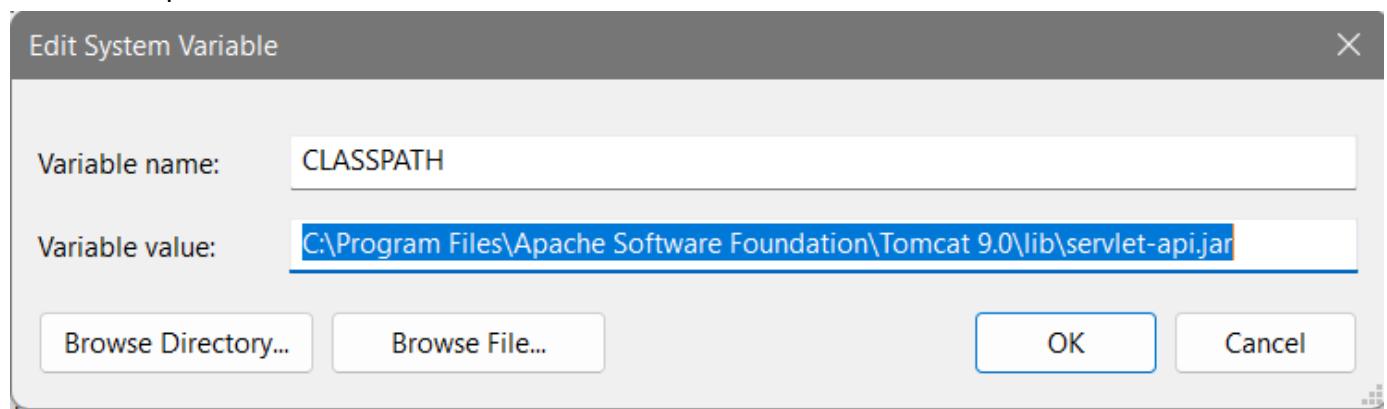
Edit...

Delete

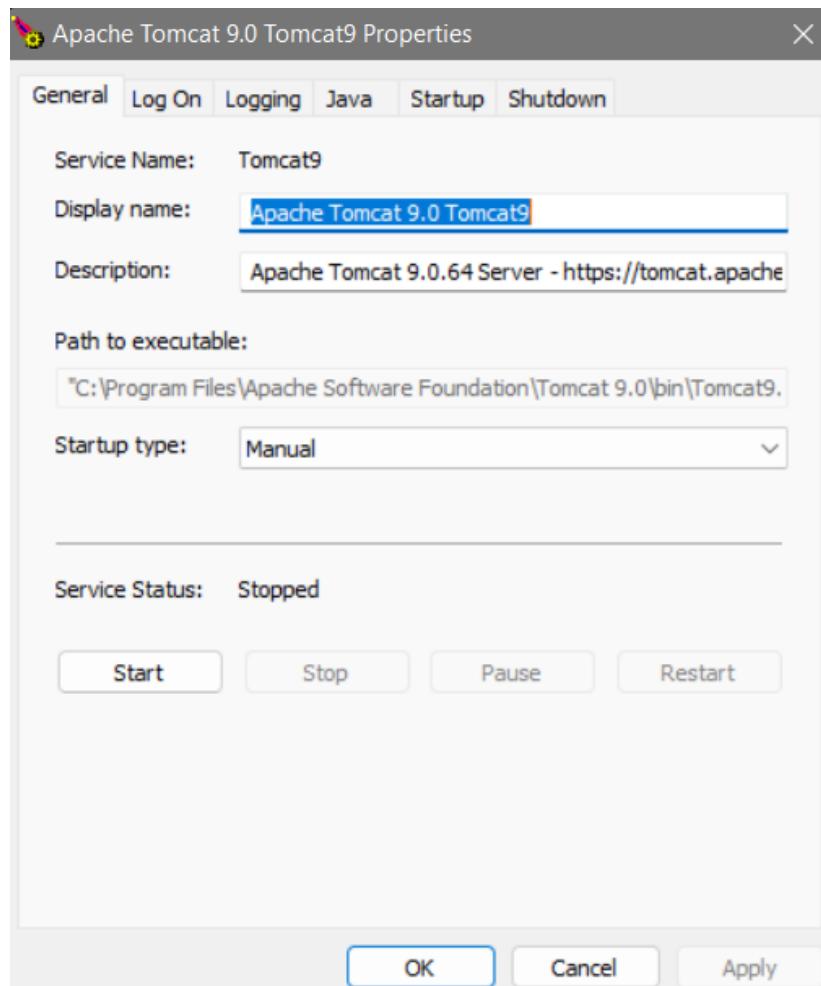
Add %CATILINA_HOME%\bin to path of system variables



Add a class path



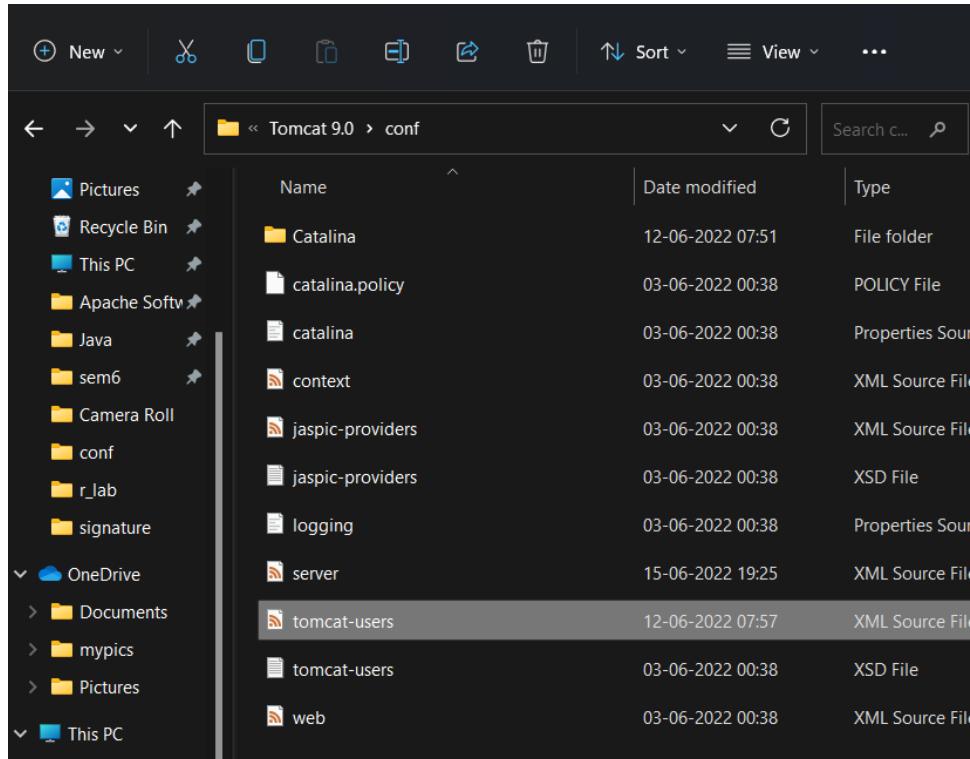
Go to bin path where tomcat 9.0 is installed and open the Tomcat9w application.

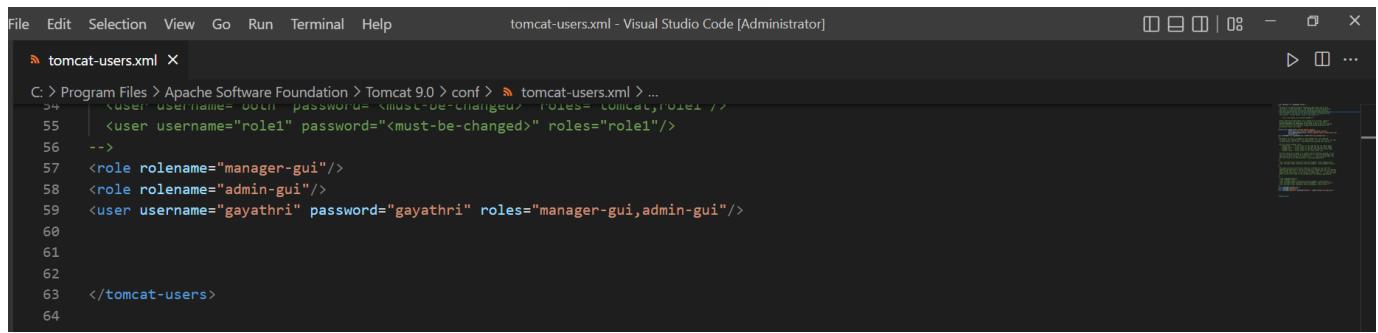


Select the startup type as manual and start the application

Open the localhost 8081 port and tomcat application will be loaded.

Now you have to open the conf folder that was down to the bin folder and then open the tomcat-users.xml file that was present inside the conf folder.



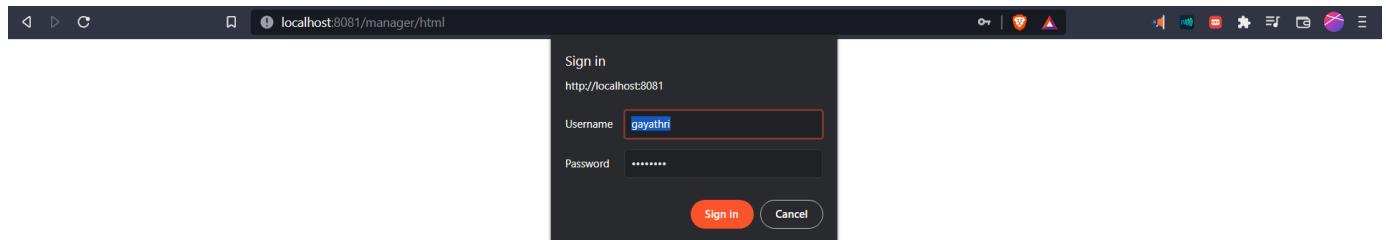
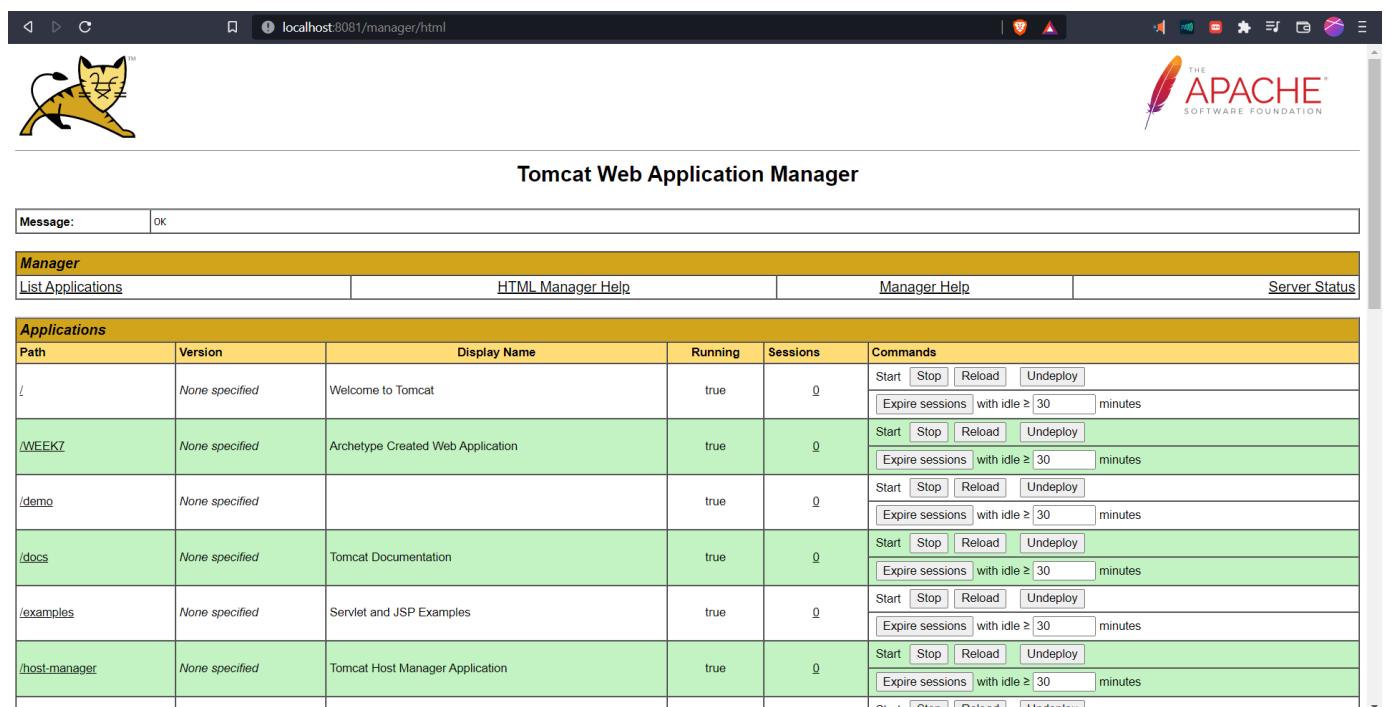


```

File Edit Selection View Go Run Terminal Help tomcat-users.xml - Visual Studio Code [Administrator]
tomcat-users.xml X
C: > Program Files > Apache Software Foundation > Tomcat 9.0 > conf > tomcat-users.xml > ...
54   <user username="root" password="<must-be-changed>" roles="tomcat,role1" />
55   <user username="role1" password="<must-be-changed>" roles="role1"/>
56   -->
57   <role rolename="manager-gui"/>
58   <role rolename="admin-gui"/>
59   <user username="gayathri" password="gayathri" roles="manager-gui,admin-gui"/>
60
61
62
63   </tomcat-users>
64

```

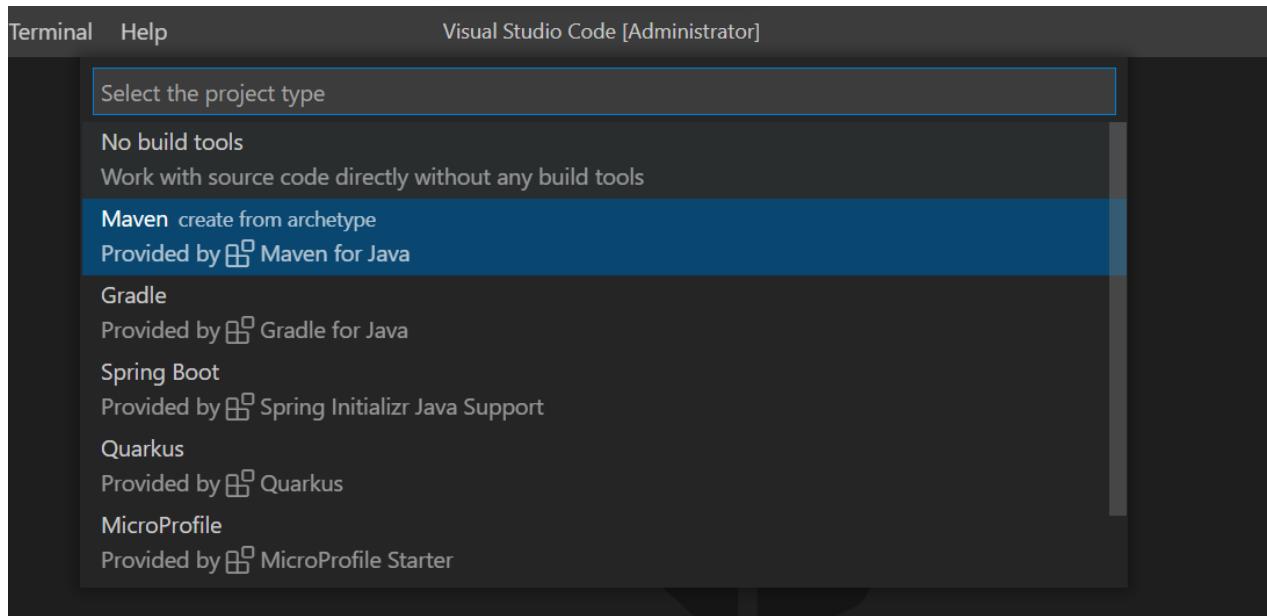
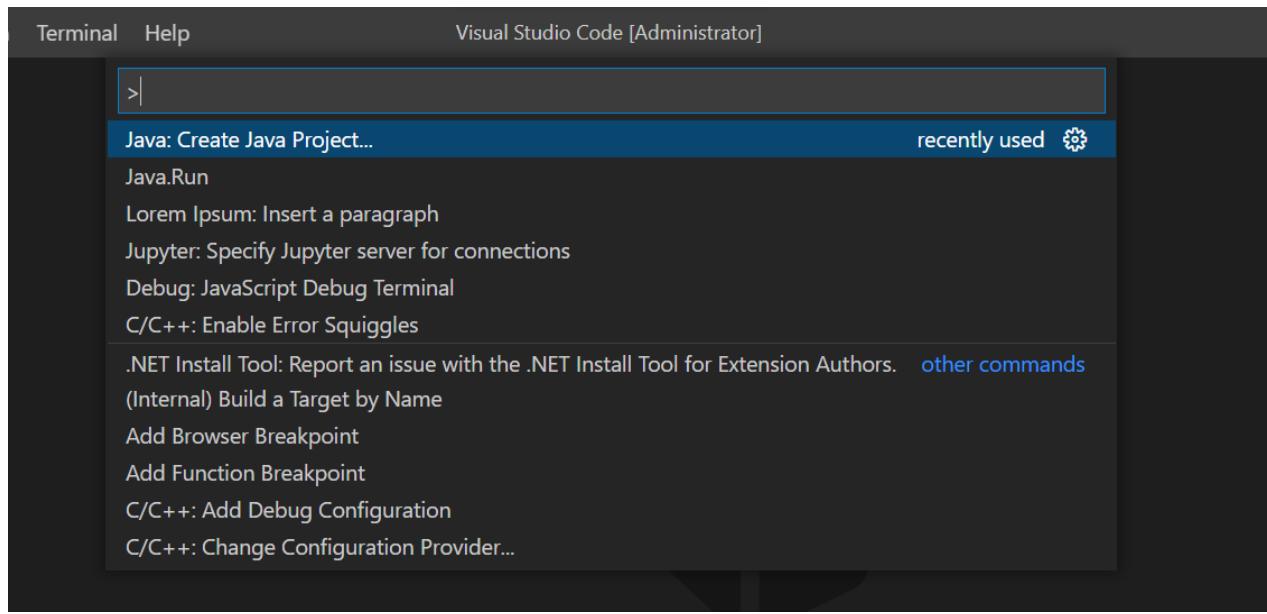
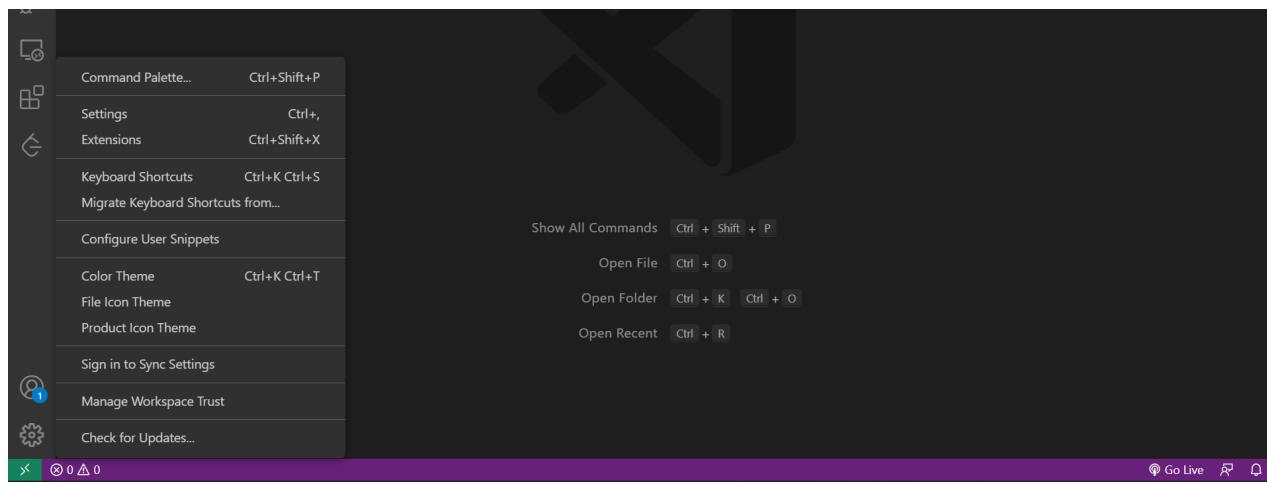
Add the manager and admin roles and set username and password.

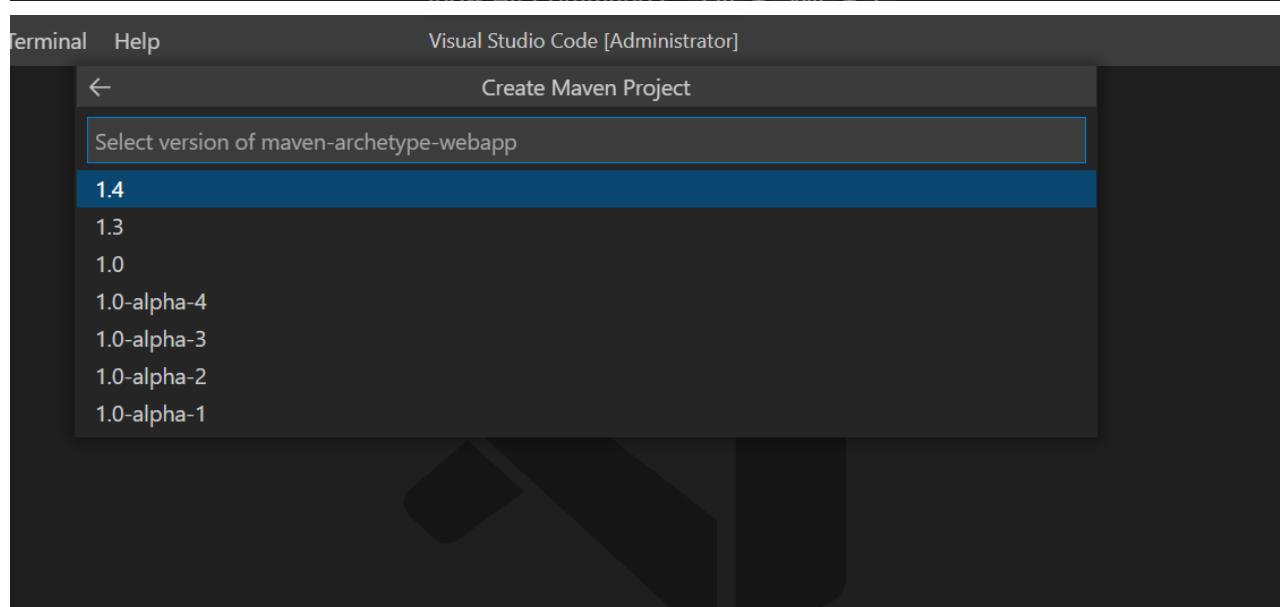
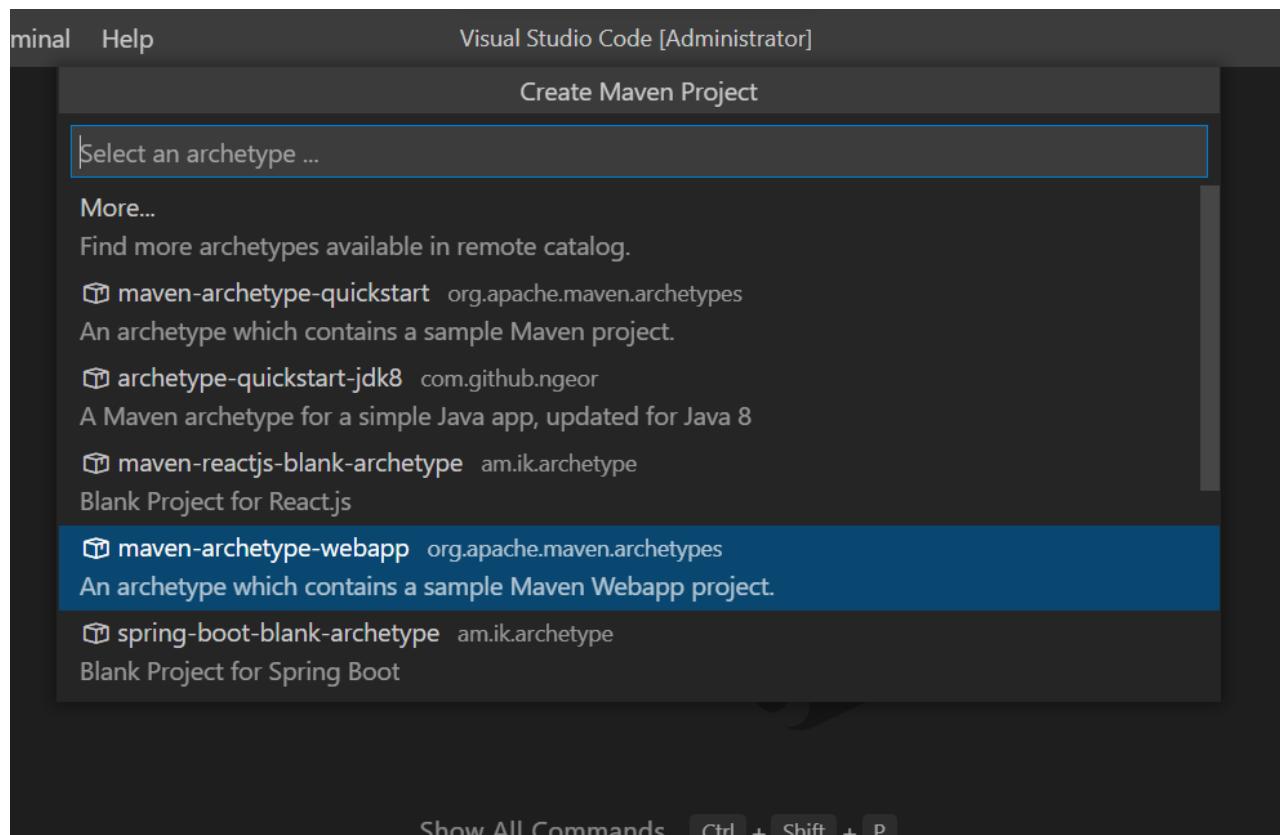



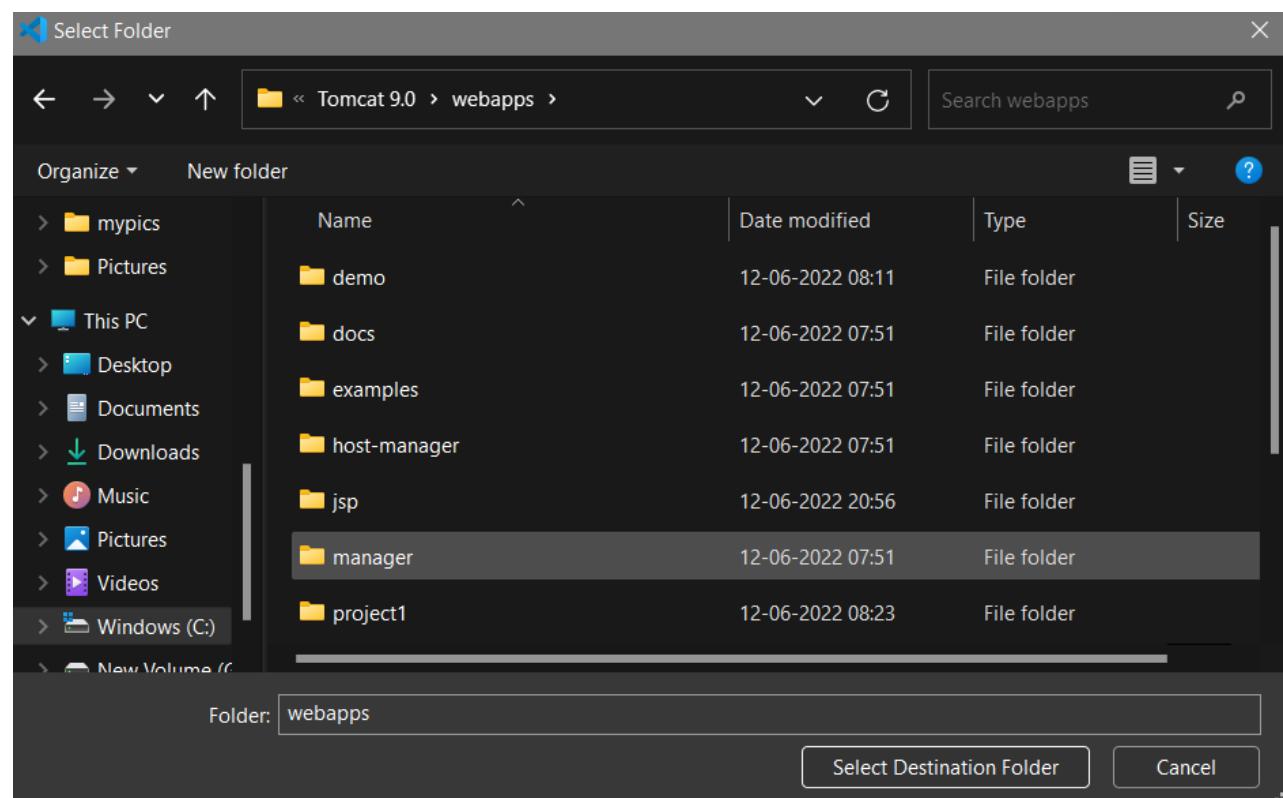
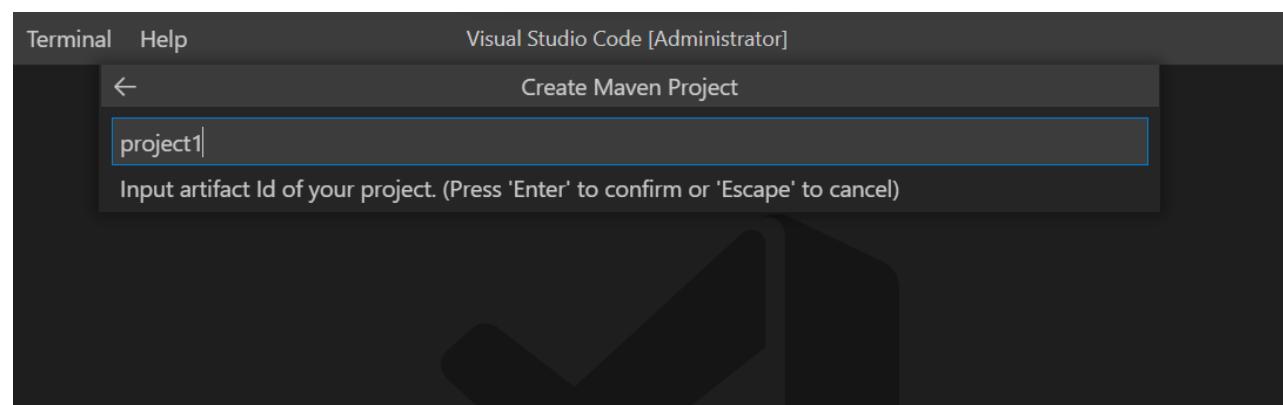
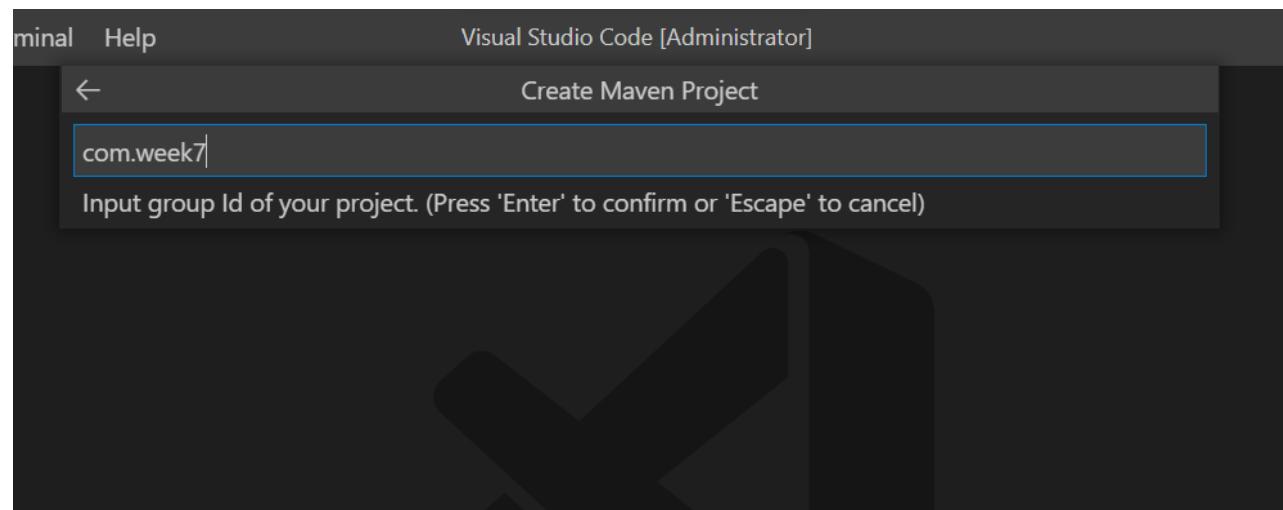
Applications					
Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy <input type="button" value="Expire sessions with idle ≥ 30 minutes"/>
/WEEK7	None specified	Archetype Created Web Application	true	0	Start Stop Reload Undeploy <input type="button" value="Expire sessions with idle ≥ 30 minutes"/>
/demo	None specified		true	0	Start Stop Reload Undeploy <input type="button" value="Expire sessions with idle ≥ 30 minutes"/>
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy <input type="button" value="Expire sessions with idle ≥ 30 minutes"/>
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy <input type="button" value="Expire sessions with idle ≥ 30 minutes"/>
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy <input type="button" value="Expire sessions with idle ≥ 30 minutes"/>

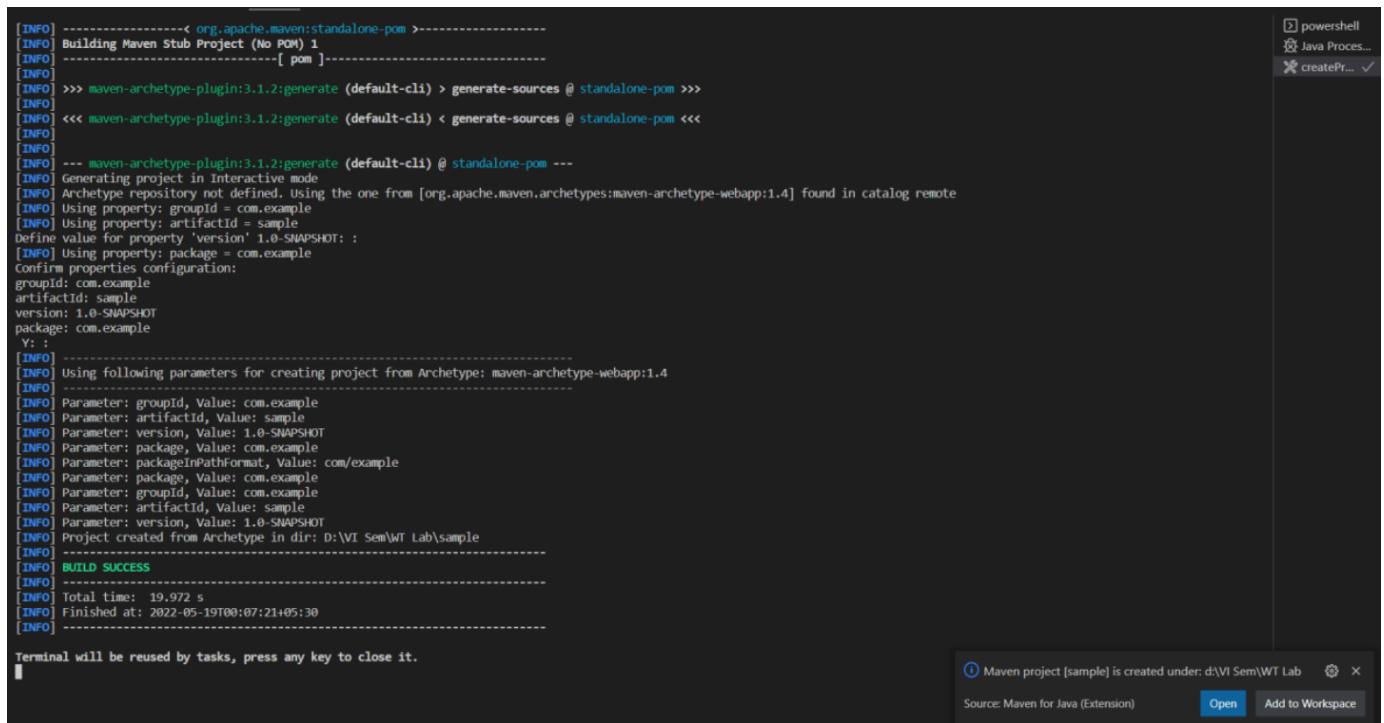
This all about the configuring the Tomcat server.

Step-4: Now open the vs code then follow these instructions. Open Command Palette→search java project→choose maven→and then choose maven architecture-webapp→select 1.4→com. Week7->project1 desired location to save→wait for some time and click enter to finish the process.









```
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) ...
[INFO] -----
[INFO] >>> maven-archetype-plugin:3.1.2:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO] 
[INFO] <<< maven-archetype-plugin:3.1.2:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO] 
[INFO] 
[INFO] --- maven-archetype-plugin:3.1.2:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Interactive mode
[INFO] Archetype repository not defined. Using the one from [org.apache.maven.archetypes:maven-archetype-webapp:1.4] found in catalog remote
[INFO] Using property: groupId = com.example
[INFO] Using property: artifactId = sample
Define value for property 'version' 1.0-SNAPSHOT:
[INFO] Using property: package = com.example
confirm properties configuration:
groupId: com.example
artifactId: sample
version: 1.0-SNAPSHOT
package: com.example
Y:
[INFO] Using following parameters for creating project from Archetype: maven-archetype-webapp:1.4
[INFO] 
[INFO] Parameter: groupId, value: com.example
[INFO] Parameter: artifactId, value: sample
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.example
[INFO] Parameter: packageInPathFormat, Value: com/example
[INFO] Parameter: package, Value: com.example
[INFO] Parameter: groupId, Value: com.example
[INFO] Parameter: artifactId, Value: sample
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: D:\VI Sem\WT Lab\sample
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 19.972 s
[INFO] Finished at: 2022-05-19T00:07:21+05:30
[INFO] -----
```

Terminal will be reused by tasks, press any key to close it.

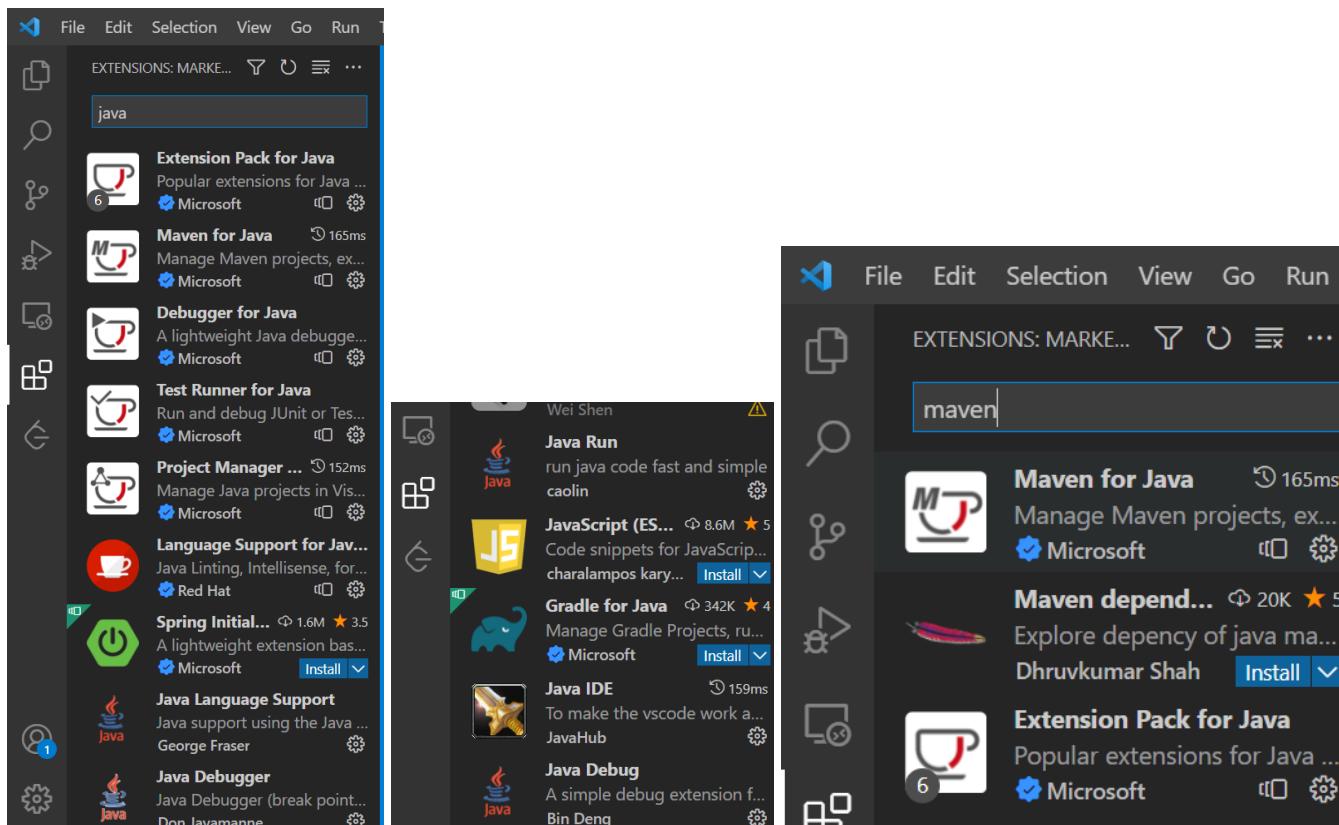
Maven project [sample] is created under: d:\VI Sem\WT Lab

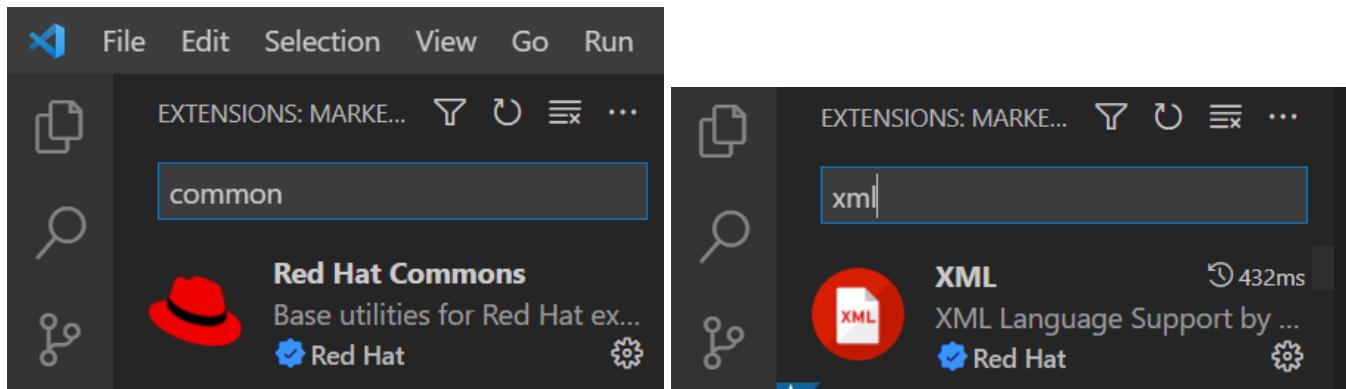
Source: Maven for Java (Extension)

Open Add to Workspace

Step 5:

Open VS Code





Install all the required extensions

Step 6: Download MySQL Installer from community downloads

The image shows a screenshot of a web browser displaying the MySQL Community Downloads page. The URL in the address bar is dev.mysql.com/downloads/windows/installer/8.0.html. The page is titled 'MySQL Installer 8.0.28'. It features a 'General Availability (GA) Releases' tab, an 'Archives' tab, and a search icon. Below the tabs, there's a dropdown for 'Select Operating System' set to 'Microsoft Windows'. Two download links are shown: 'Windows (x86, 32-bit), MSI Installer' (version 8.0.28, 2.3M, Download button) and 'Windows (x86, 32-bit), MSI Installer' (version 8.0.28, 435.7M, Download button). A note at the bottom suggests using MD5 checksums and GnuPG signatures for package integrity. The browser's toolbar and status bar are visible at the top and bottom respectively.

Step 7: Click on No thanks , just start downloading

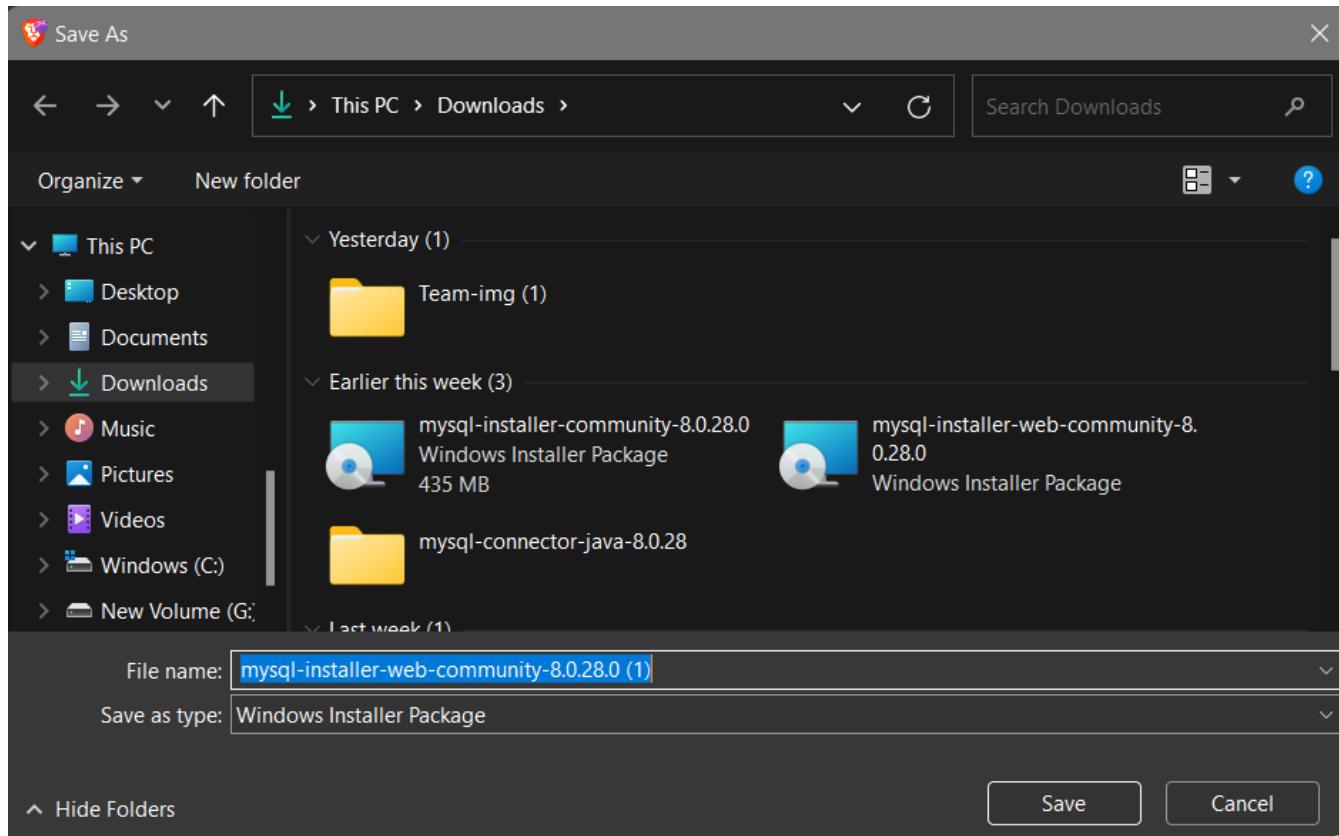
The image shows a screenshot of the MySQL Community Downloads page. At the top, there are links for 'Login Now' and 'Sign Up'. Below that, a section explains the benefits of an Oracle Web Account. Further down, a note about Oracle SSO authentication is present. At the bottom of the page, there is a green button labeled 'No thanks, just start my download.' The browser's toolbar and status bar are visible at the top and bottom respectively.

No thanks, just start my download.

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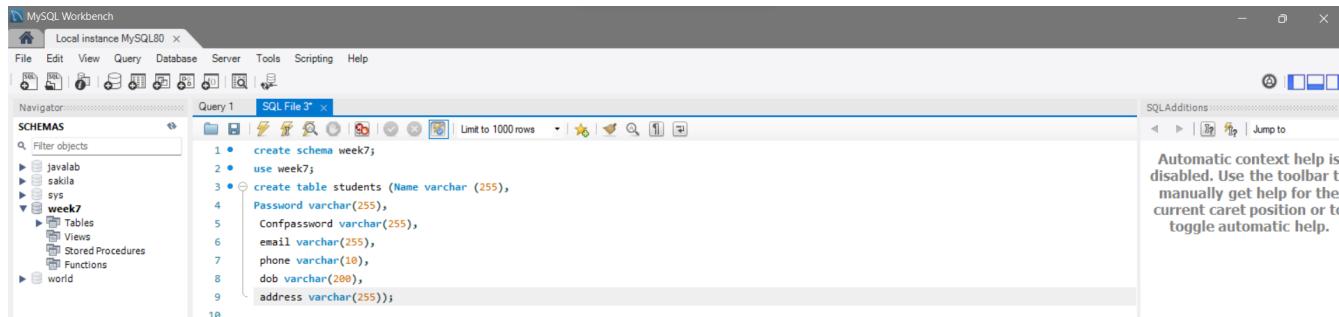
Download web community and run the executable file



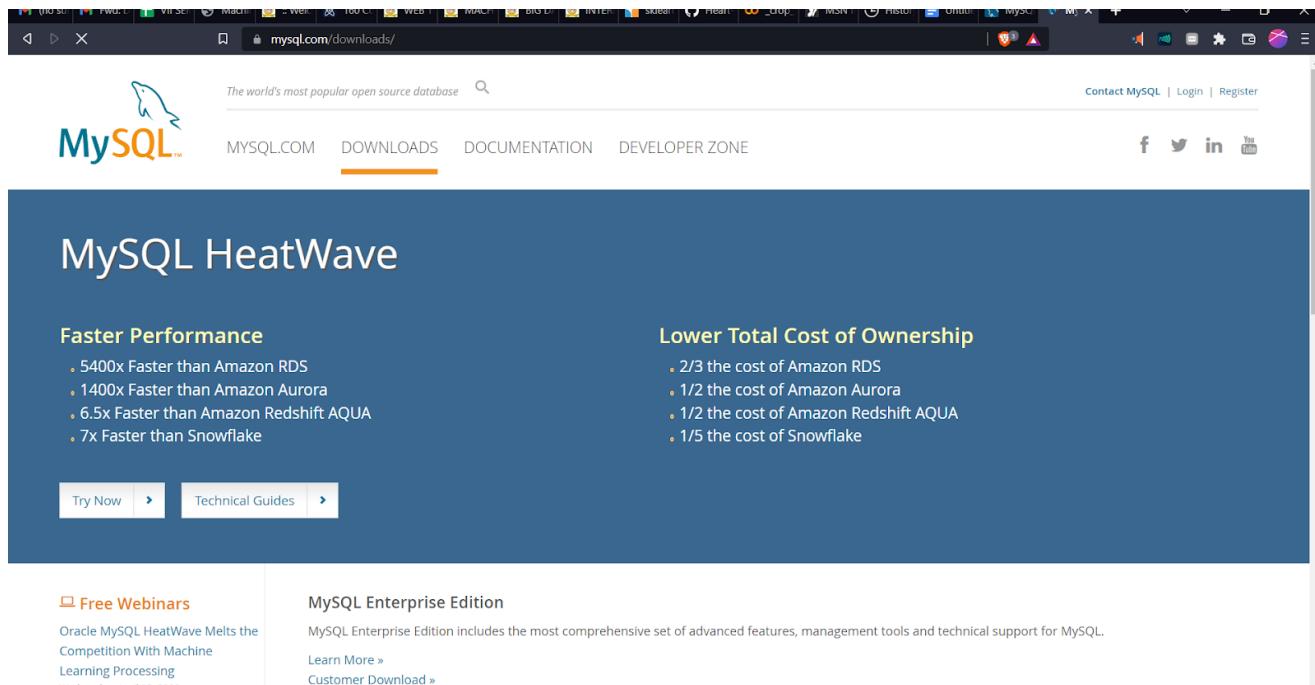
Install all the packages and pre-requisites and create an account and complete installation .

Open the installed MySQL workbench

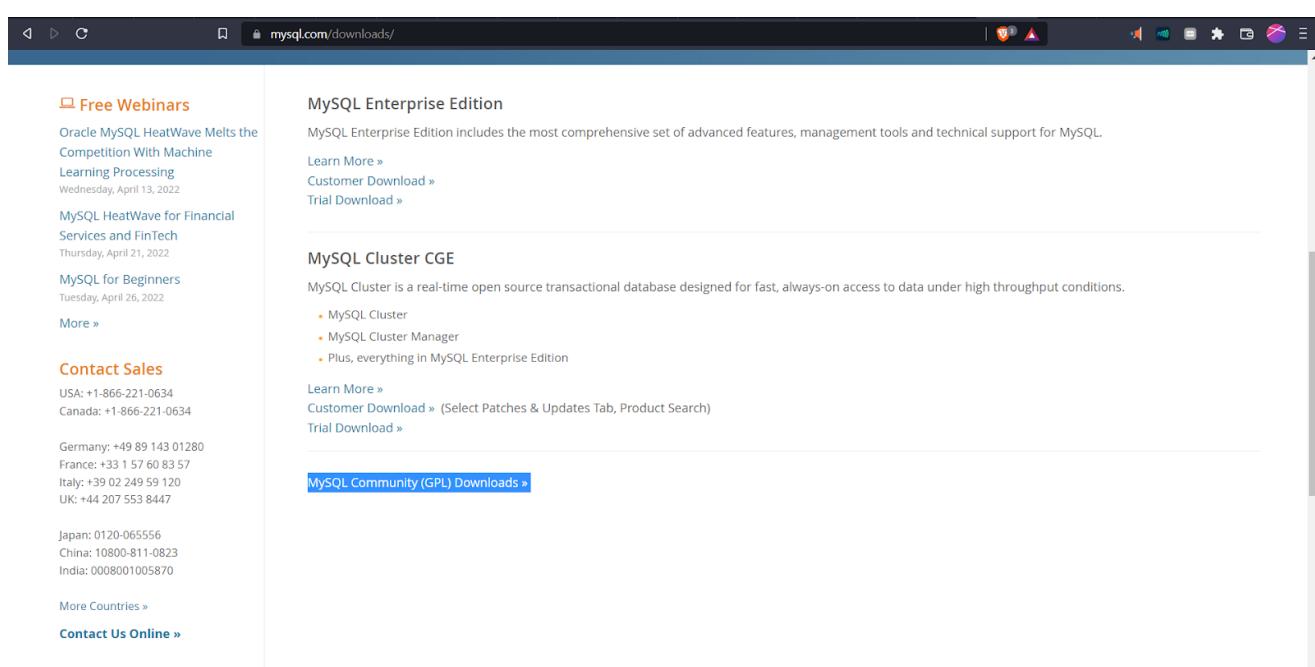
Create a schema named week7 and create a table students.



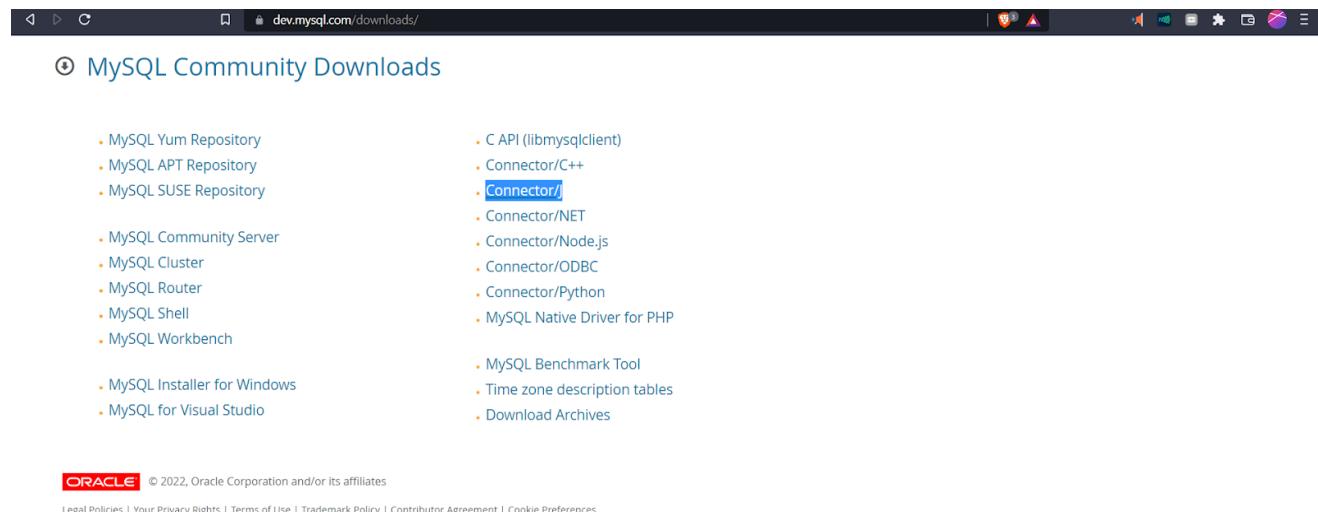
Install JDBC connector



The screenshot shows the MySQL HeatWave landing page. At the top, there's a navigation bar with links for MySQL.COM, DOWNLOADS (which is underlined), DOCUMENTATION, and DEVELOPER ZONE. Below the navigation is a large section titled "MySQL HeatWave". It features two main sections: "Faster Performance" and "Lower Total Cost of Ownership", each with a bulleted list of benefits. At the bottom of this section are two buttons: "Try Now" and "Technical Guides".



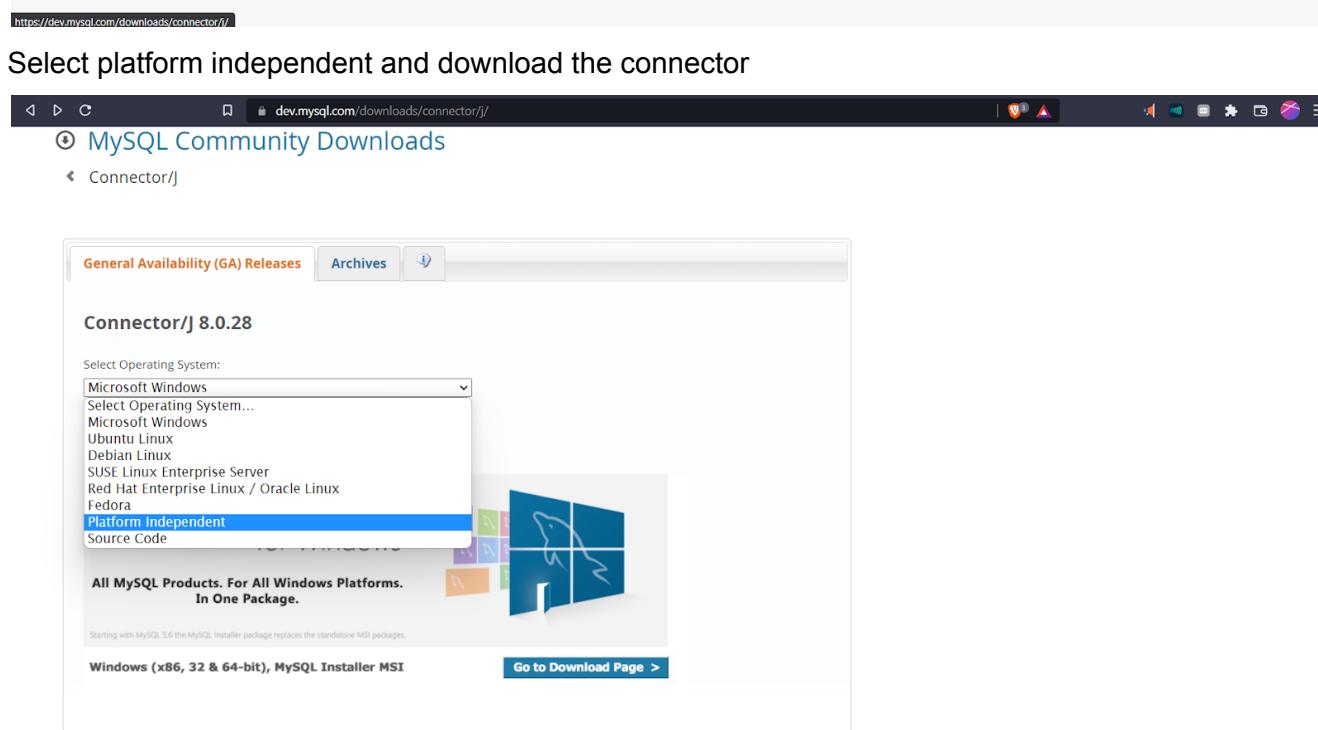
The screenshot shows the MySQL Enterprise Edition landing page. On the left sidebar, there are sections for "Free Webinars", "MySQL for Beginners", "Contact Sales", and international contact information. The main content area has a section titled "MySQL Enterprise Edition" with a brief description and links to "Learn More", "Customer Download", and "Trial Download". Below this is another section titled "MySQL Cluster CGE" with a brief description and a list of components. At the bottom of the page is a link to "MySQL Community (GPL) Downloads".



MySQL Community Downloads

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- MySQL Community Server
- MySQL Cluster
- MySQL Router
- MySQL Shell
- MySQL Workbench
- MySQL Installer for Windows
- MySQL for Visual Studio
- C API (libmysqlclient)
- Connector/C++
- Connector/J**
- Connector/NET
- Connector/Node.js
- Connector/ODBC
- Connector/Python
- MySQL Native Driver for PHP
- MySQL Benchmark Tool
- Time zone description tables
- Download Archives

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Select platform independent and download the connector

MySQL Community Downloads

Connector/J

General Availability (GA) Releases Archives

Connector/J 8.0.28

Select Operating System:

- Microsoft Windows
- Select Operating System...
- Ubuntu Linux
- Debian Linux
- SUSE Linux Enterprise Server
- Red Hat Enterprise Linux / Oracle Linux
- Fedora
- Platform Independent**
- Source Code

All MySQL Products. For All Windows Platforms.
In One Package.

Windows (x86, 32 & 64-bit), MySQL Installer MSI

Go to Download Page >

④ MySQL Community Downloads

[Connector/J](#)

General Availability (GA) Releases Archives

Connector/J 8.0.28

Select Operating System:

Platform Independent

Platform Independent (Architecture Independent), Compressed TAR Archive	8.0.28	4.0M	Download
(mysql-connector-java-8.0.28.tar.gz)			MDS: 5f21fdde306a6d643e4c6e8a2ec4b5bd Signature

Platform Independent (Architecture Independent), ZIP Archive	8.0.28	4.8M	Download
(mysql-connector-java-8.0.28.zip)			MDS: d19db89de75c46b71c4257badfa1e22b Signature

! We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

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<https://dev.mysql.com/downloads/file/?id=509728> | [Legal Policies](#) | [Your Privacy Rights](#) | [Terms of Use](#) | [Trademark Policy](#) | [Contributor Agreement](#) | [Cookie Preferences](#)



④ MySQL Community Downloads

[Login Now or Sign Up for a free account.](#)

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system

[Login »](#)

using my Oracle Web account

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for an Oracle Web account

MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

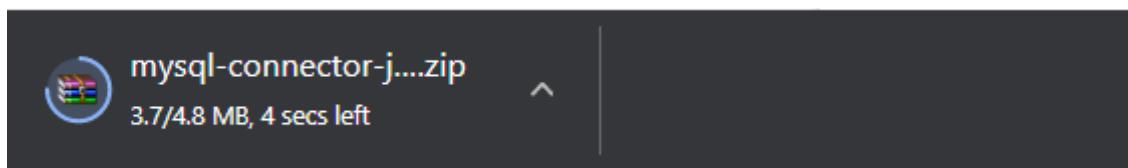
[No thanks, just start my download.](#)

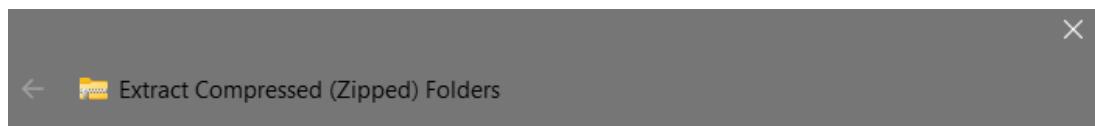
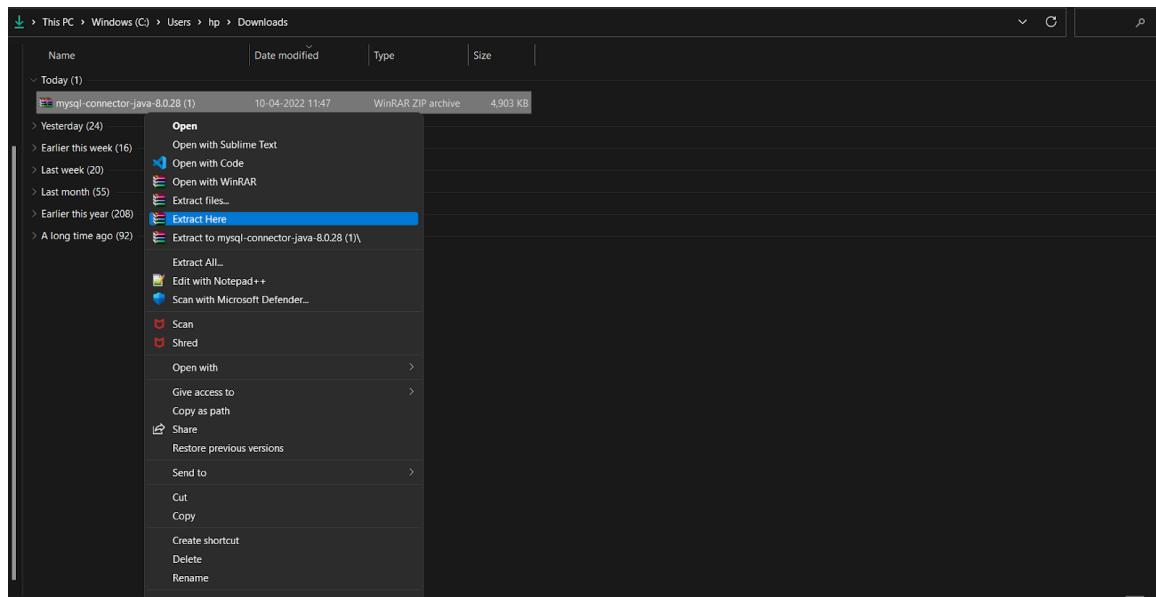
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<https://dev.mysql.com/get/Downloads/Connector-J/mysql-connector-java-8.0.28.zip>

Download the zip file and extract the files

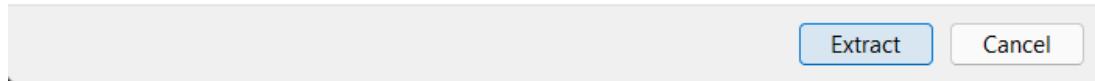


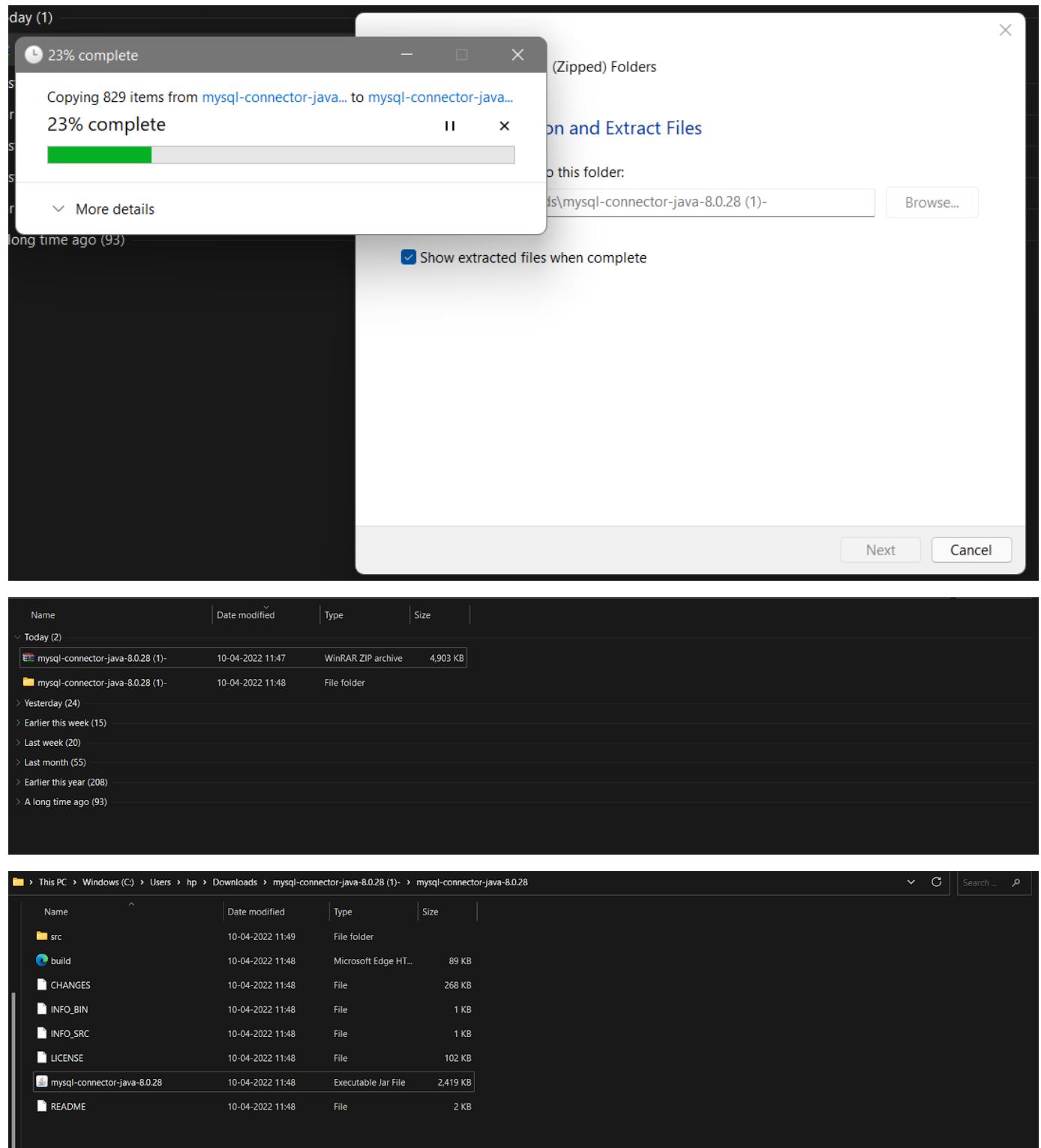


Select a Destination and Extract Files

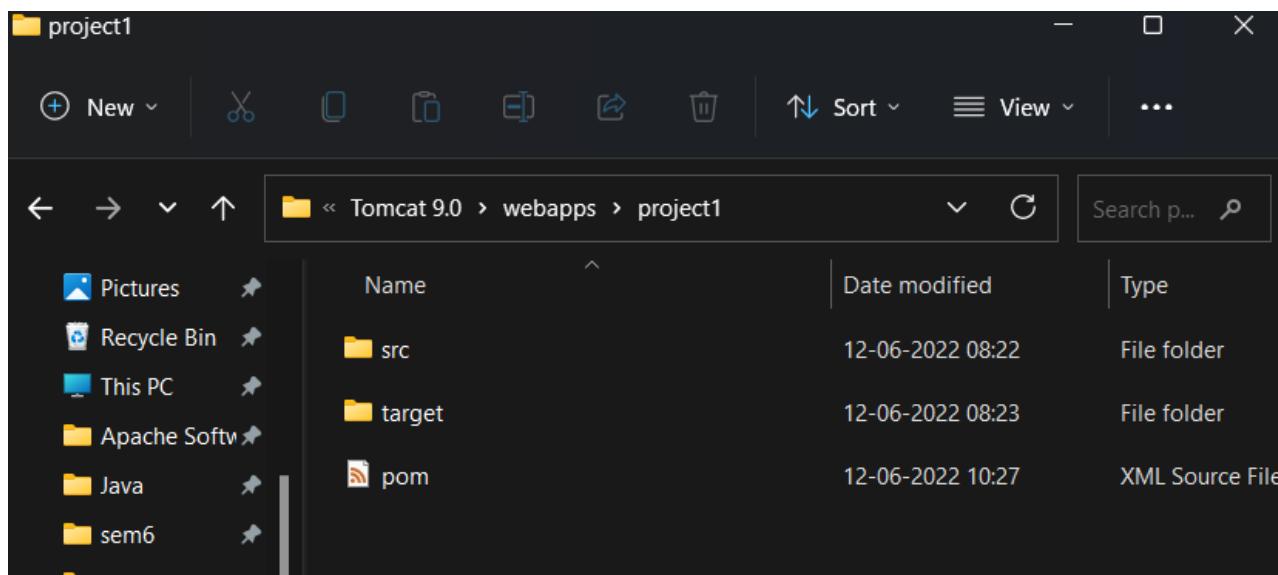
Files will be extracted to this folder:

Show extracted files when complete

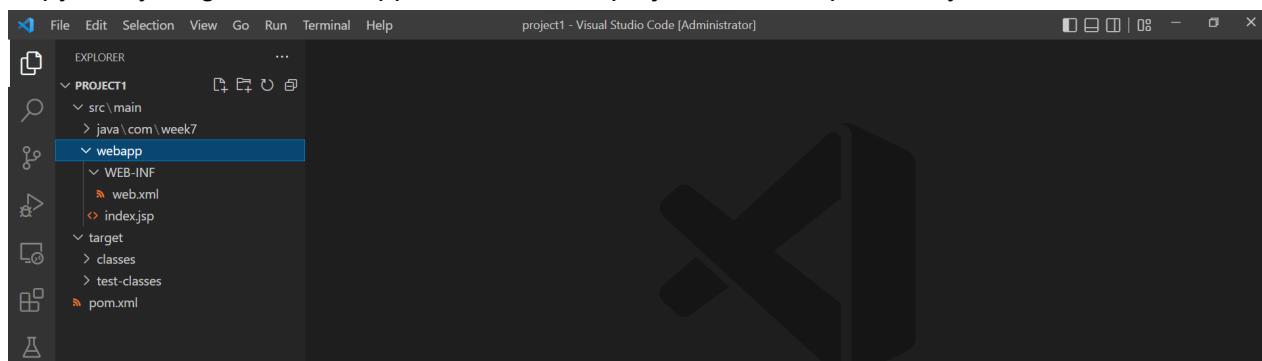




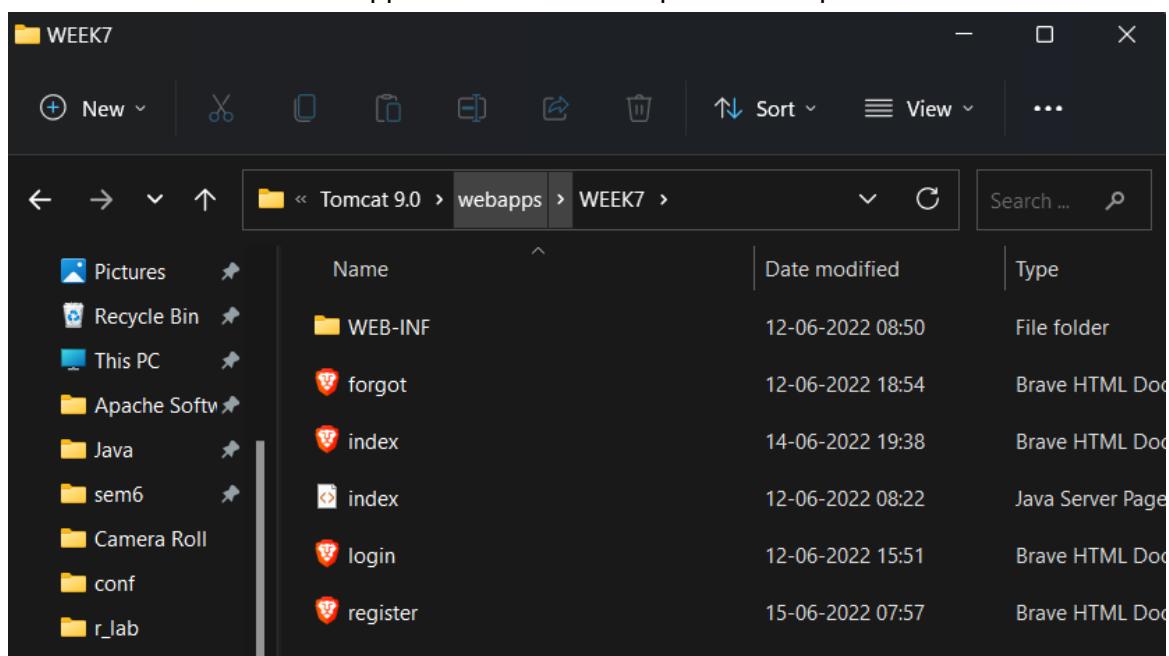
Copy the mysql-connector-java-6.0.28 and paste it in the lib folder of tomcat 9.0



Copy everything under webapps of the maven project1 created previously



Create a new folder in webapps of tomcat 9.0 and paste the copied files in that folder.



Create html files and java files and also connect them through web.xml file.

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <header>
        Project1
    </header>
    <button><a href="register.html">Register</a></button>
    <button><a href="login.html">Login </a></button>
</body>
</html>

```

Index.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <header>
        Project1
    </header>
    <button><a href="register.html">Register</a></button>
    <button><a href="login.html">Login </a></button>
</body>
</html>

```

Login.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>gvpc</title>
    <style>
        .containerr{
            margin:2rem;
            padding: 1rem;
            background-image:
url('https://t3.ftcdn.net/jpg/04/48/06/74/360_F_448067440_hTwoSx63cvavKS0qYDs1BR2Qg
5C0JVB7.jpg');
        }
        center{
            width: 80%;
        }
        p,label{
            padding: 0.2rem;
            margin: 0.2rem;
            color: white;
        }
        input{
            padding: 0.2rem;
            margin: 0.2rem;
            border-radius: 0.5rem;
            border: 0.1rem black;
        }
        button{
            padding: 0.2rem;
            margin: 0.2rem;
            border-radius: 0.5rem;
            color: black;
            background-color: white;
        }
        button:hover{
            background-color: #33ADDB;
            color: white;
        }
        a:hover{
```

```
        color: white;
    }
    a{
        color: #33ADDB;
    }

    </style>
</head>
<body>
    <center>
        <div class="containerr">
            <div>
                <h2 style="color: white;">Login</h2>

                <form onsubmit="return click()" action="../WEEK7/servlet/Login1" method="post"
                    class="formm" name="formm" >
                    <label>Name:</label>
                    <input name="name" type="text"><br>
                    <label>Password:</label>
                    <input name="password" type="password">
                    <button type="submit" style="margin-top:
1rem; margin-bottom:1rem">Signin</button>

                </form>
            </div>
            <div class="">

                <p>Dont have an account <a href=".//register.html">Signup</a></p>
                <p> Forgot password <a href=".//forgot.html">Change password</a></p>
            </div>
        </center>
    </body>
<script>
    function stringContainsNumber(str){
        return /\d/.test(str);
    }
    function stringContainslower(str){
        return str.match(/[a-z]/);
    }
    function check(){
        let x=document.forms["formm"]["name"].value;
        let y=document.forms['formm']['password'].value;
        console.log(x,y);
    }
</script>
```

```

var c=y.charAt(0);
var lc=/abcdefghijklmnopqrstuvwxyz/;
var ss= /[!@#$%^&*()_+=\[\]{};':"\\"|,.<>\/?]+/;

if(x.length<6){
    alert('username must be of atleast 6 characters.');
    return false;
}
else if(y.length<8){
    alert("Password must be of atleast 8 characters");
}

else if(c!=c.toUpperCase()){
    alert("Password should start with a capital letter");
}
else if(!stringContainsNumber(y)){
    alert('Password should contain a digit');
}
else if(!y.match(ss)){
    alert('Password should contain special character');
}
else if(!stringContainslower(y)){
    alert('Password should contain a lower case letter');
}
else{
    alert("login successful")
    return true;
}
return false;
}
</script>
</html>

```

Register.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>gvpce</title>
    <style>
        .containerr{

```

```
margin:2rem;
padding: 1rem;
background-image:
url('https://t3.ftcdn.net/jpg/04/48/06/74/360_F_448067440_hTwoSx63cvavKS0qYDs1BR2Qg5C0J
VB7.jpg');
}
center{
    width: 80%;
}
p,label{
    padding: 0.2rem;
    margin: 0.2rem;
    color: white;
}
input{
    padding: 0.3rem;
    margin: 0.3rem;
    border-radius: 0.5rem;
    border: 0.1rem black;

}
button{
    padding: 0.2rem;
    margin: 0.2rem;
    border-radius: 0.5rem;
    color: black;
    background-color: white;
}
button:hover{
    background-color: #33ADDB;
    color: white;
}
a:hover{
    color: white;
}
a{
    color: #33ADDB;
}

</style>
</head>
<body>
<center>
<div class="containerr">
<div>
<h2 style="color: white;">Register</h2>
```

```
<form onsubmit="return check()" action="../WEEK7/servlet/Register1"
method="post" class="formm" name="formm" >
    <label>Username:</label>
    <input name="name" required type="text"><br>
    <label>Password</label>
    <input name="password" required type="password"><br>
    <label>Confirm password</label>
    <input name="password1" required type="password"><br>
    <label>Email-id</label>
    <input name="email" required type="email"><br>
    <label>Mobile Number</label>
    <input name="mobile" required type="number"><br>
    <label>Date of Birth</label>
    <input name="dob" required type="date"><br>
    <label>Address</label>
    <input name="Address" required type="text"><br>
    <!-- <label>Gender</label>
    <input name="gender" required type="radio"><label>Male</label>
    <input name="gender" required type="radio"><label>Female</label>
    <input name="gender" required type="radio"><label>Others</label><br>
-->

        <div class="">
            <button type="submit" style="margin-top:
1rem; margin-bottom:1rem">SignUp</button>
        </div>

    </form>
</div>

</div>
</center>
</body>
<script>
    function stringContainsNumber(str){
        return /\d/.test(str);
    }
    function stringContainslower(str){
        return str.match(/[a-z]/);
    }
    function check(){

```

```
let x=document.forms["formm"]["name"].value;
let y=document.forms['formm']['password'].value;
let z=document.forms['formm']['password1'].value;
console.log(x,y);
var c=y.charAt(0);
let m=document.forms['formm']['mobile'].value;
var l=0;
var ss= /[!@#$%^&*()_+=\[\]\{\};':"\\"|,.<>\/?]+/;
var lc=/abcdefghijklmnopqrstuvwxyz/
em=document.forms['formm']['email'].value;
var ems=@./;

if(x.length<6){
    l+=1;
    alert('username must be of atleast 6 characters.');
    return false;
}
else if(y.length<8){
    l+=1;

    alert("Password must be of atleast 8 characters");
}

else if(c!=c.toUpperCase()){
    l+=1;

    alert("Password should start with a capital letter");
}
else if(!stringContainsNumber(y)){
    l+=1;

    alert('Password should contain a digit');
}
else if(!y.match(ss)){
    l+=1;

    alert('Password should contain special character');
}
else if(!stringContainslower(y)){
    l+=1;

    alert('Password should contain a lower case letter');
}
else if(y!=z){
    l+=1;
```

```

        alert('password and confirm password didnot match');
    }
    else if(!em.match(em)){
        l+=1;

        alert('email is not in a correct format')
    }
    else if(m.length!=10){
        l+=1;

        alert('length of mobile number should be 10');
    }

    if(l==0){
        alert("account created successfully")
    }

}
</script>

</html>

```

Forgot.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>gvpce</title>
    <style>
        .containerr{
            margin:2rem;
            padding: 1rem;
            background-image:
url('https://t3.ftcdn.net/jpg/04/48/06/74/360_F_448067440_hWoSx63cvavKS0qYDs1BR2Qg
5C0JVB7.jpg');
        }
        center{
            width: 80%;
        }
    </style>

```

```
p,label{
    padding: 0.2rem;
    margin: 0.2rem;
    color: white;
}

input{
    padding: 0.2rem;
    margin: 0.2rem;
    border-radius: 0.5rem;
    border: 0.1rem black;
}

}

button{
    padding: 0.2rem;
    margin: 0.2rem;
    border-radius: 0.5rem;
    color: black;
    background-color: white;
}

button:hover{
    background-color: #33ADDB;
    color: white;
}

a:hover{
    color: white;
}

a{
    color: #33ADDB;
}

}

</style>
</head>
<body>
<center>
<div class="containerr">
    <div>
        <h2 style="color: white;">Change password</h2>

        <form onsubmit="return check()" action="../WEEK7/servlet/Forgot"
method="post" class="formm" name="formm" >
            <label>Username</label>
            <input name="name" type="text"><br>
            <label>Password</label>
            <input name="password" type="password"><br>
```

```
<label>Confirm Password</label>
<input name="password1" type="password"><br>

<button type="submit" style="margin-top:
1rem; margin-bottom:1rem">Change Password</button>

</form>

</div>
<div class="">

<p>Dont have an account <a href=".//registration.html">Signup</a></p>
</div>
</div>
</center>

</body>
<script>
    function stringContainsNumber(str){
        return /\d/.test(str);
    }
    function stringContainslower(str){
        return str.match(/[a-z]/);
    }
    function check(){
        let y=document.forms['formm']['password'].value;
        let z=document.forms['formm']['password1'].value;
        var c=y.charAt(0);
        var l=0;
        var ss= /[ !@#$%^&*()_+=\[\]{};':"\\"|,.<>\/?]+/;
        var lc=/abcdefghijklmnopqrstuvwxyz/;

        if(y.length<8){
            l+=1;

            alert("Password must be of atleast 8 characters");
        }

        else if(c!=c.toUpperCase()){
            l+=1;

            alert("Password should start with a capital letter");
        }
    }
</script>
```

```

        else if(!stringContainsNumber(y)){
            l+=1;

            alert('Password should contain a digit');
        }
        else if(!y.match(ss)){
            l+=1;

            alert('Password should contain special character');
        }
        else if(!stringContainslower(y)){
            l+=1;

            alert('Password should contain a lower case letter');
        }
        else if(y!=z){
            l+=1;

            alert('password and confirm password didnot match');
        }

        if(l==0){
            alert("Password change done")
        }
    }
</script>

</html>

```

Login1.java

```

import java.io.*;
import java.sql.*;
import java.util.Date;
import javax.servlet.ServletException;
import java.text.SimpleDateFormat;
import javax.servlet.http.*;
import javax.servlet.RequestDispatcher;
import javax.swing.tree.ExpandVetoException;

public class Login1 extends HttpServlet {

```

```
protected void doPost(HttpServletRequest req, HttpServletResponse res) throws
ServletException, IOException {
    res.setContentType("text/html");
    PrintWriter out = res.getWriter();
    // out.println("ello");
    String name = req.getParameter("name");
    String password = req.getParameter("password");

    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con = DriverManager.getConnection(
            "jdbc:mysql://localhost:3306/week7", "root", "Bvss122#");

        PreparedStatement ps = con.prepareStatement("select * from students
where name=? and password=?");
        // out.println("helloooooooooo");
        ps.setString(1, name);
        ps.setString(2, password);

        ResultSet rs = ps.executeQuery();

        if (rs.next()) {
            // String n = req.getParameter("name");
            // out.println(rs.getString("Name"));
            // out.println("<html><body><h1>");
            out.println("Welcome " + name);
            // out.println("</html></body></h1>");

        } else {
            // out.println("<script type=\"text/javascript\">");
            // out.println("alert('Username or password incorrect');");
            // out.println("location='..../login.html';");
            // out.println("</script>");
            out.println("incorrect username or password");

        }
    } catch (Exception e) {
        out.println(e + "unsuccessful");
    }
    out.close();
}
```

Register1.java

```
import java.io.*;
import java.sql.*;
import java.util.Date;
import javax.servlet.ServletException;
import java.text.SimpleDateFormat;
import javax.servlet.http.*;
import javax.swing.tree.ExpandVetoException;

public class Register1 extends HttpServlet {
    protected void doPost(HttpServletRequest req, HttpServletResponse res) throws
ServletException, IOException {
        res.setContentType("text/html");
        PrintWriter out = res.getWriter();

        String name = req.getParameter("name");
        String password = req.getParameter("password");
        String password1 = req.getParameter("password1");
        String email = req.getParameter("email");
        String phone = req.getParameter("mobile");
        String dob = req.getParameter("dob");
        String Address = req.getParameter("Address");
        // out.print("yes");
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/week7", "root", "Bvss122#");

            PreparedStatement ps = con.prepareStatement("insert into students
values(?,?,?,?,?,?)");

            ps.setString(1, name);
            ps.setString(2, password);
            ps.setString(3, password1);
            ps.setString(4, email);
            ps.setString(5, phone);
            ps.setString(6, dob);
            ps.setString(7, Address);

            int i = ps.executeUpdate();
            if (i >= 1) {
                // out.println("<script type=\"text/javascript\">");
            }
        }
    }
}
```

```

        // out.println("alert('Registration successful.. please login');");
        // out.println("location='..../login.html'");
        // out.println("</script>");
        out.println("registered");
    } else {
        out.println("could not register");
    }

} catch (Exception e) {
    out.println("could not register" + e);
}
out.close();
}

}
}

```

Forgot.java

```

import java.io.*;
import java.sql.*;
import java.util.Date;
import javax.servlet.ServletException;
import java.text.SimpleDateFormat;
import javax.servlet.http.*;
import javax.swing.tree.ExpandVetoException;

public class Forgot extends HttpServlet {
    protected void doPost(HttpServletRequest req, HttpServletResponse res) throws
ServletException, IOException {
        res.setContentType("text/html");
        PrintWriter out = res.getWriter();

        String name = req.getParameter("name");
        String password = req.getParameter("password");
        String password1 = req.getParameter("password1");
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/week7", "root", "Bvssl122#");

            PreparedStatement ps = con
                .prepareStatement("update students set Password=?, Conffpassword=?
where Name=? ");
            ps.setString(1, password);

```

```
ps.setString(2, password1);
ps.setString(3, name);

int i = ps.executeUpdate();
out.println(i);
if (i > 0) {
    // String n = request.getParameter("username");
    // out.println("<script type=\"text/javascript\">");
    // out.println("alert('Password changed successfully');");
    // out.println("location='..../login.html';");
    // out.println("</script>");
    out.println("Password changed successfully");
} else {
    out.println("Password cant be changes");
    // out.println("<script type=\"text/javascript\">");
    // out.println("alert('Username or password incorrect');");
    // out.println("location='..../forgot_password.html';");
    // out.println("</script>");
}
} catch (Exception e) {
    out.println(e);
}
}
```

Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="2.5"
  xmlns="http://java.sun.com/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
  http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd">
  <display-name>Archetype Created Web Application</display-name>
  <servlet>
    <servlet-name>Register1</servlet-name>
    <servlet-class>Register1</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>Register1</servlet-name>
    <url-pattern>/servlet/Register1</url-pattern>
```

```
</servlet-mapping>

<servlet>
  <servlet-name>Login1</servlet-name>
  <servlet-class>Login1</servlet-class>
</servlet>

<servlet-mapping>
  <servlet-name>Login1</servlet-name>
  <url-pattern>/servlet/Login1</url-pattern>
</servlet-mapping>

<servlet>
  <servlet-name>Forgot</servlet-name>
  <servlet-class>Forgot</servlet-class>
</servlet>

<servlet-mapping>
  <servlet-name>Forgot</servlet-name>
  <url-pattern>/servlet/Forgot</url-pattern>
</servlet-mapping>

<!-- <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>register.html</welcome-file>
    <welcome-file>login.html</welcome-file>
    <welcome-file>forgot_password.html</welcome-file>
  </welcome-file-list> -->
</web-app>
```

Output:

