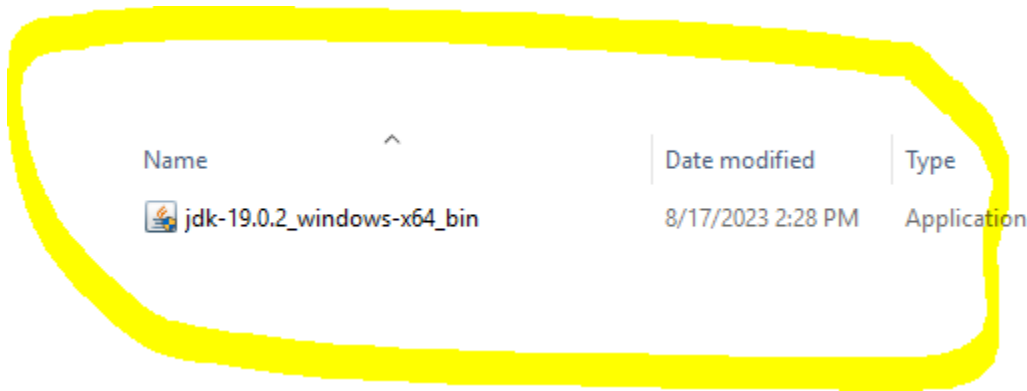
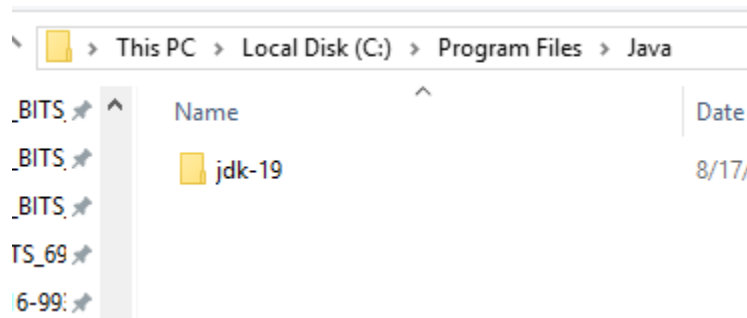


# How to Run a JSP Program in Apache Tomcat (Windows)

Step 1:- Download and install jdk in your system.

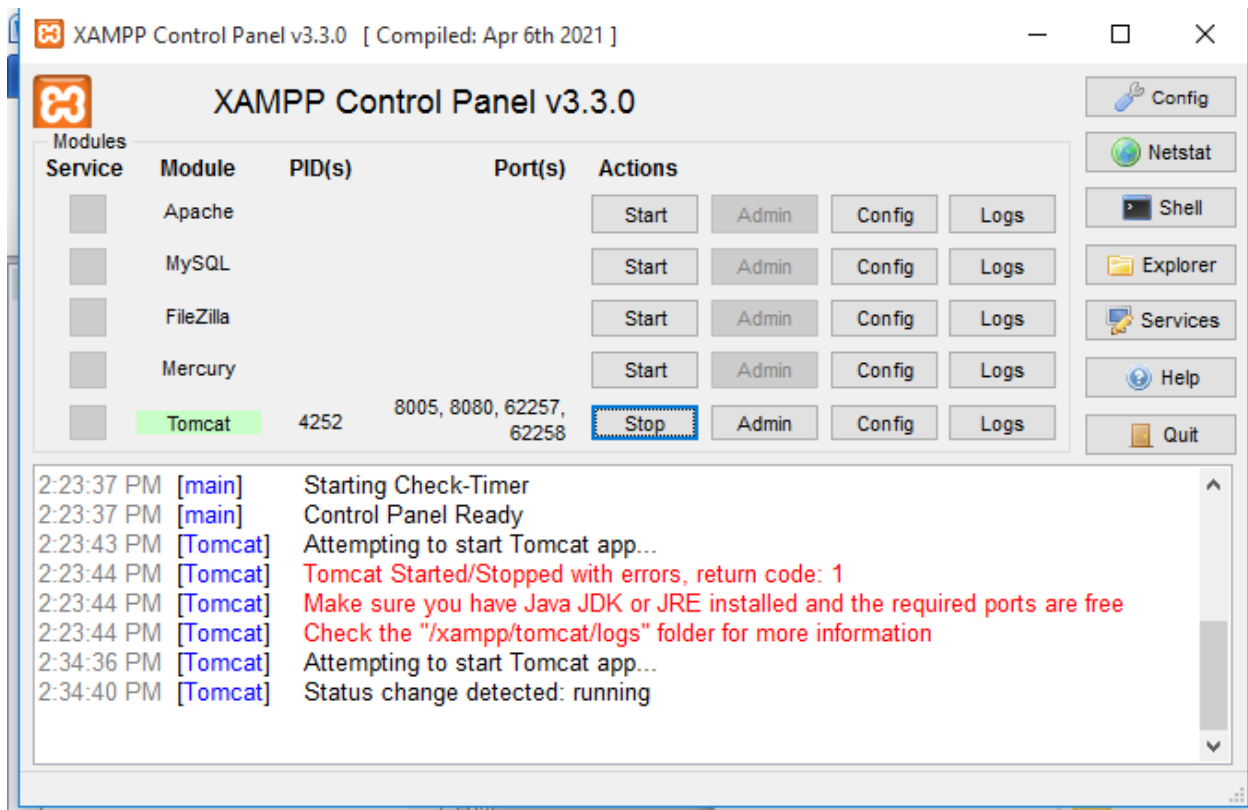


After installation you will see

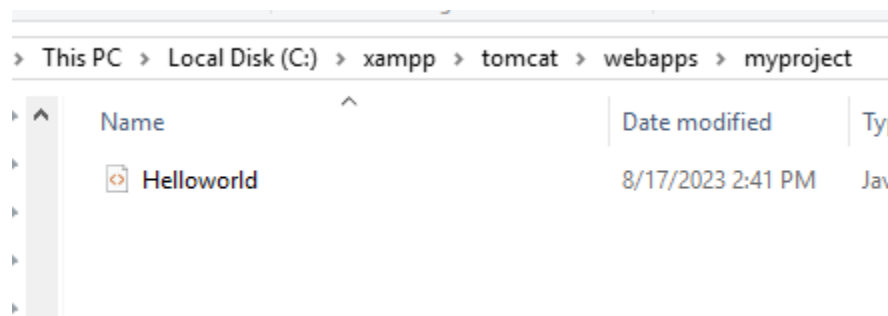


Step 2:-

Now install xampp and start tomcat server as shown below :-



After it open your xampp folder as shown below and inside webapps folder create myproject folder and save file Helloworld.java



Code for Helloworld.java :-

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

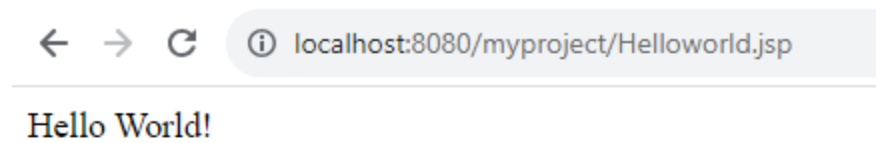
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<html>
  
```

```
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
  <title>Hello World - JSP tutorial</title>
</head>
<body>
  <%= "Hello World!" %>
</body>
</html>
```

Output:- run it as open any browser and type

`localhost:8080/myproject/Helloworld.jsp`

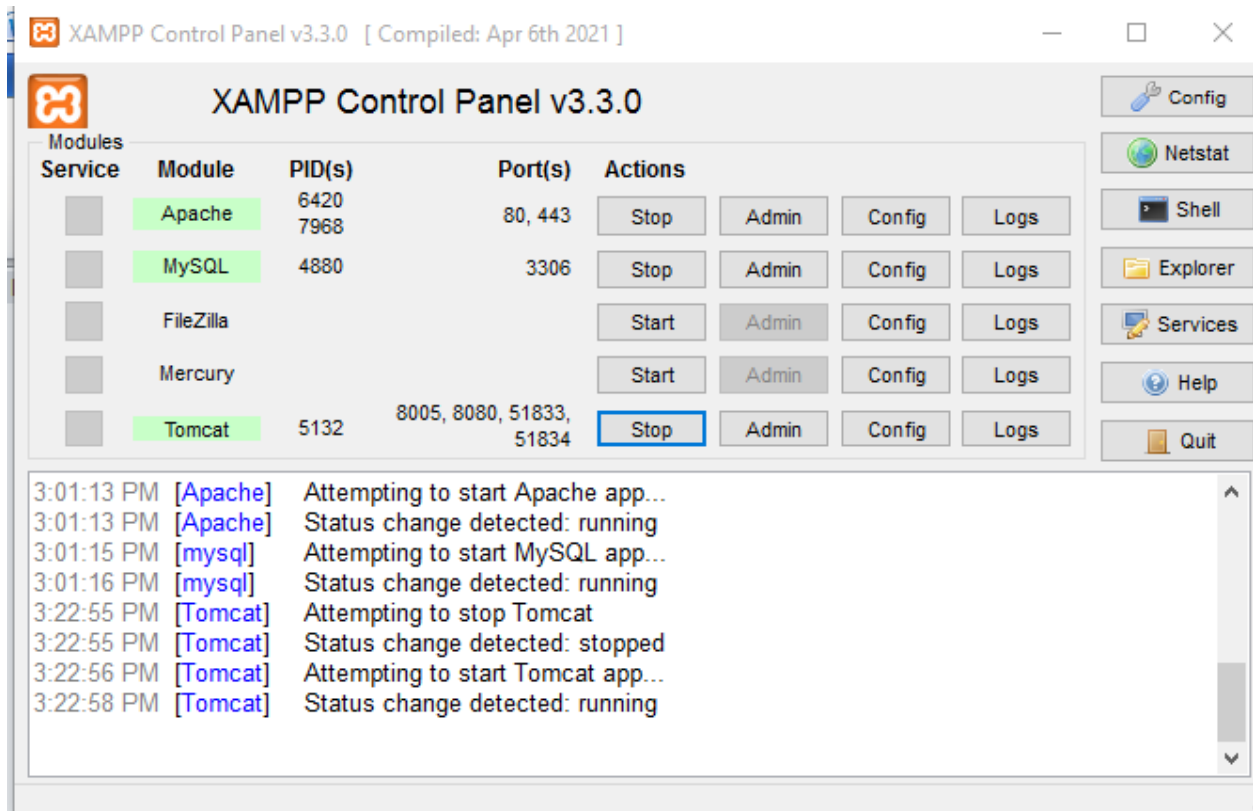


## Jsp to Mysql Database connectivity:-

Run xampp and start

- Apache
- Mysql
- Tomcat

As shown below



The screenshot displays the XAMPP Control Panel v3.3.0 interface. The main window shows a table of modules with their respective services, modules, PID(s), Port(s), and Actions. The Apache, MySQL, and Tomcat services are highlighted in green, indicating they are running. The Tomcat service has a 'Stop' button highlighted in blue. The logs section at the bottom shows the following entries:

Time	Service	Action
3:01:13 PM	[Apache]	Attempting to start Apache app...
3:01:13 PM	[Apache]	Status change detected: running
3:01:15 PM	[mysql]	Attempting to start MySQL app...
3:01:16 PM	[mysql]	Status change detected: running
3:22:55 PM	[Tomcat]	Attempting to stop Tomcat
3:22:55 PM	[Tomcat]	Status change detected: stopped
3:22:56 PM	[Tomcat]	Attempting to start Tomcat app...
3:22:58 PM	[Tomcat]	Status change detected: running

Step 1:-

The screenshot shows the phpMyAdmin web interface. On the left, a tree view lists various databases: New, information\_schema, mahenoor, mydb, mysql, performance\_schema, phpmyadmin, sid, sukumardigital, test, and usermaster. The 'test' database is highlighted with a yellow circle. On the right, the 'Database: usermaster' view is active, showing a message 'No tables found in database.' and a 'Create new table' form. The form has two input fields: 'Table name' and 'Number of columns', with the value '4' entered in the second field.

Step 2:-

After it download mysql connect jar file from

← → ↻ dev.mysql.com/downloads/connector/j/5.1.html

🔍 155.4K 🔒 L2.34K 🔒 LD 34.9M 📄 1940 👤 whois </> source 📊 Rank 5.89K 📌 PIN 0

## MySQL Community Downloads

← Connector/J

General Availability (GA) Releases Archives ⓘ

### Connector/J 8.1.0

Select Operating System:

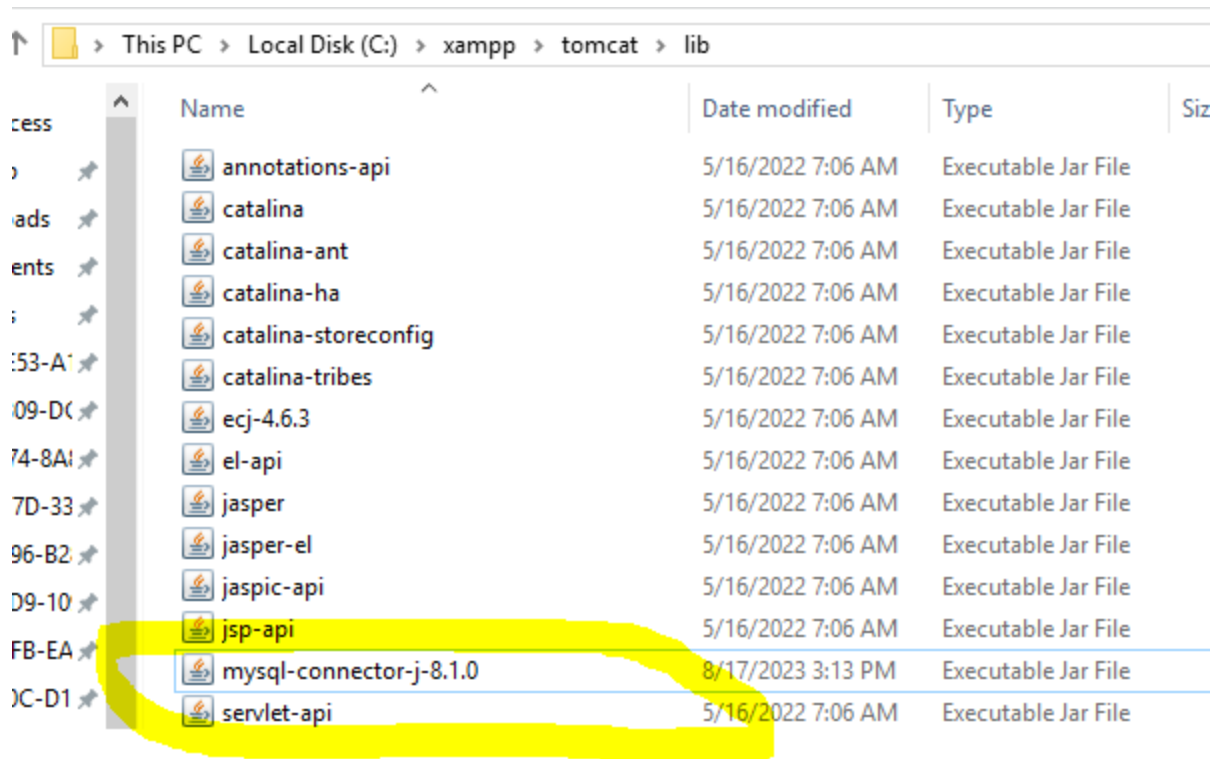
Platform Independent ▼

And download archives after it

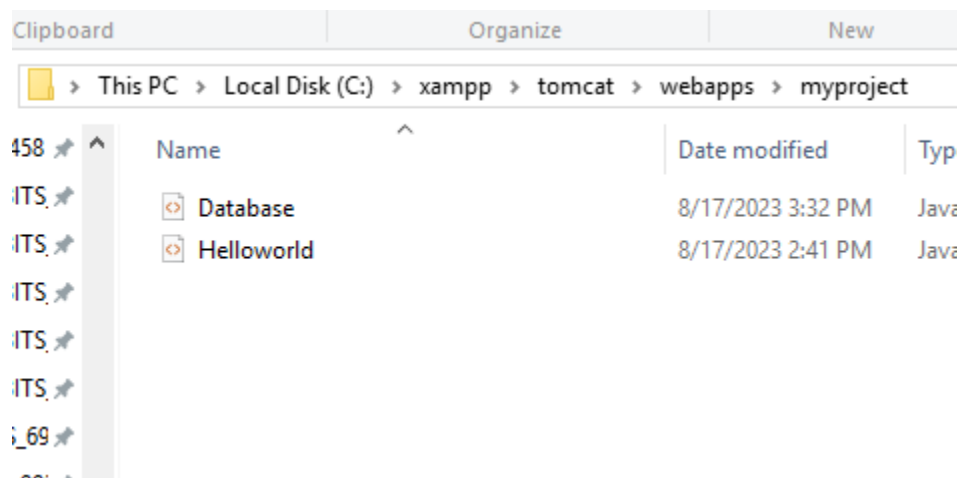


mysql-connector-j-8.1.0

extract above zip and you will get `mysql-connector-j-81.0 jar` file copy this jar file and put inside `tomcat/lib` folder as shown below.



After it write code for database connectivity Database.jsp file and save inside your project folder as shown below:-



**Database.jsp file code :-**

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
```

```
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<%@ page import="java.sql.*" %>
<%@ page import="java.io.*" %>

<html>
<head>
<title>Connection with mysql database</title>
</head>
<body>
<h1>Connection status </h1>
<%
try {
/* Create string of connection url within specified format with machine name,
port number and database name. Here machine name id localhost and
database name is usermaster. */
String connectionURL = "jdbc:mysql://localhost:3306/usermaster";

// declare a connection by using Connection interface
Connection connection = null;

// Load JBBC driver "com.mysql.jdbc.Driver"
Class.forName("com.mysql.jdbc.Driver").newInstance();

/* Create a connection by using getConnection() method that takes parameters of
string type connection url, user name and password to connect to database. */
connection = DriverManager.getConnection(connectionURL, "root", "");
```



```
// check weather connection is established or not by isClosed() method
if(!connection.isClosed())
%>
<font size="+3" color="green"></b>
<%
out.println("Successfully connected to " + "MySQL server using TCP/IP...");
connection.close();
}
catch(Exception ex){
%>
</font>
<font size="+3" color="red"></b>
<%
out.println("Unable to connect to database.");
}
%>
</font>
</body>
</html>
```

Output:-

## Connection status

Successfully connected to MySQL server using TCP/IP...