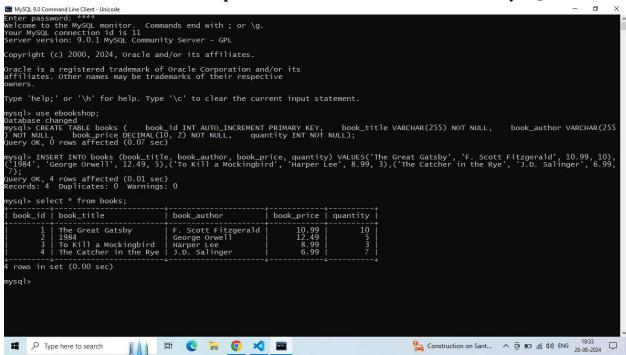
Assignment 4

4. Implement the sample program demonstrating the use of Servlet. e.g., Create a database table ebookshop (book_id, book_title, book_author, book_price, quantity) using database like Oracle/MySQL etc. and display (use SQL select query) the table content using servlet.





2. Steps to Create and Run the Servlet:

- a. Open Eclipse and select **File > New > Dynamic Web Project**.
- b. Name your project.
- c. Select the **target runtime** (e.g., Apache Tomcat).
- d. Click Finish.
- e. Right-click on the src/main/java folder in your project.
- f. Select **New > Servlet**.
- g. Name the class.
- h. Click **Next**, then **Finish**.
- i. In web-inf create web.xml file.

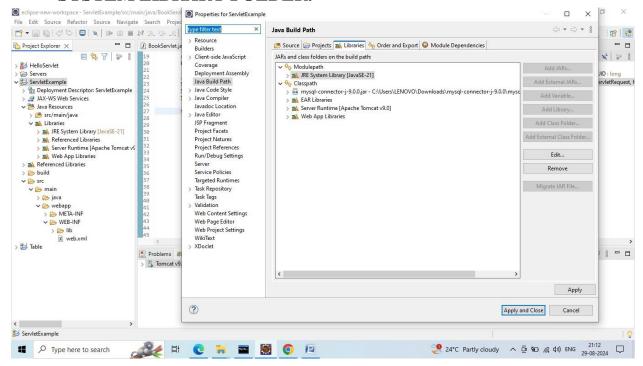
3. SERVLET CODE:

```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/BookServlet")
public class BookServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        // Database connection settings
        String jdbcUrl = "jdbc:mysql://localhost:3306/ebookshop";
        String jdbcUser = "username"; // Update with your MySQL username
        String jdbcPassword = "password"; // Update with your MySQL password
        try {
            // Load MySQL JDBC driver
            Class.forName("com.mysql.cj.jdbc.Driver");
            // Connect to the database
            Connection connection = DriverManager.getConnection(jdbcUrl, jdbcUser,
jdbcPassword);
            Statement statement = connection.createStatement();
            // Query the ebookshop table
            String query = "SELECT * FROM books";
            ResultSet resultSet = statement.executeQuery(query);
            // Display the table content
            out.println("<html><body>");
            out.println("<h2>Bookshop Inventory</h2>");
```

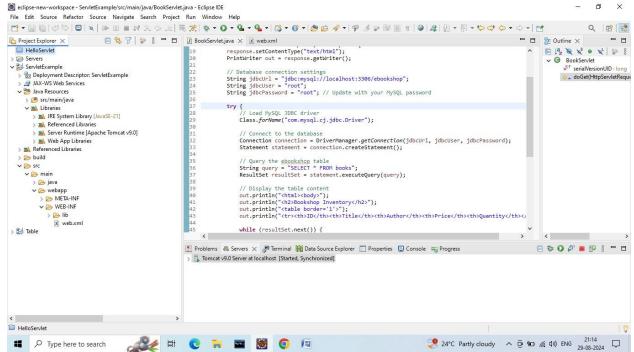
```
out.println("");
          out.println("IDTitleAuthorPriceQ
uantity");
         while (resultSet.next()) {
             out.println("");
             out.println("" + resultSet.getInt("book_id") + "");
             out.println("" + resultSet.getString("book_title") + "");
             out.println("" + resultSet.getString("book_author") + "");
             out.println("" + resultSet.getDouble("book_price") + "");
             out.println("" + resultSet.getInt("quantity") + "");
             out.println("");
          }
         out.println("");
         out.println("</body></html>");
          // Close resources
          resultSet.close();
          statement.close();
          connection.close();
      } catch (Exception e) {
          e.printStackTrace();
          out.println("Error: " + e.getMessage() + "");
      }
   }
}
```

4. WEB.XML CODE:

5. MySQL JDBC connector file in WEB-INF -> LIB FOLDER and JRE SYSTEM LIBRARY FOLDER.



6. File directory path for reference:



7. OUTPUT OF TABLE FROM DATABASE TO BROWSER.

