Assignment.5

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.

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("/ShowBookInfo")
public class ShowBookInfo extends HttpServlet {

	protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
	{
		response.setContentType("text/html");
		PrintWriter out=response.getWriter();
		out.print("<center><h2>Book Information</h2></center>");
		try
		{
			Class.forName("com.mysql.cj.jdbc.Driver");
			Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/ebooks","root","prajwal");
			Statement st=con.createStatement();
			ResultSet rs=st.executeQuery("select * from bookinfo");
			out.print("<center><table border=\"1\">");

	out.print("<tr><th>BookId</th><th>BookName</th><th>Author</th><th>Prize</th
><th>Quantity</th></tr>");
			while(rs.next())
			{
				out.print("<tr>");
				out.print("<td>"+rs.getString(1)+"</td>");
				out.print("<td>"+rs.getString(2)+"</td>");
				out.print("<td>"+rs.getString(3)+"</td>");
```

```
                        out.print("<td>"+rs.getInt(4)+"</td>");
                        out.print("<td>"+rs.getInt(5)+"</td>");
                        out.print("</tr>");
                    }
                    out.print("</table></center>");
                }
                catch(Exception e)
                {
                    out.print("<center><h2>Unable to connect to
database</h2></center>");
                }


        }

}
```

MYSQL

mysql> CREATE TABLE bookinfo(id INT NOT NULL ,title VARCHAR(30) NOT NULL,author VARCHAR(30) NOT NULL, price INT NOT NULL, quantity INT NOT NULL ,PRIMARY KEY(id));

Query OK, 0 rows affected (0.14 sec)

mysql> desc bookinfo

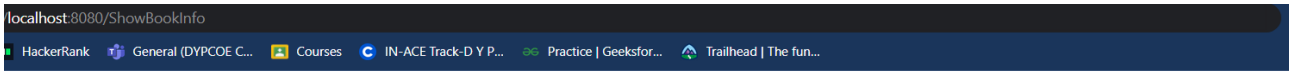
-> ;

```
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| id       | int         | NO   | PRI | NULL    |       |
| title    | varchar(30) | NO   |     | NULL    |       |
| author   | varchar(30) | NO   |     | NULL    |       |
| price    | int         | NO   |     | NULL    |       |
| quantity | int         | NO   |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
```

5 rows in set (0.03 sec)

```
mysql> insert into bookinfo values (101,"cpp program","xyz",345,2);
Query OK, 1 row affected (0.02 sec)

mysql> select * from bookinfo;
+-----+-------------+--------+-------+----------+
| id  | title       | author | price | quantity |
+-----+-------------+--------+-------+----------+
| 101 | cpp program | xyz    |   345 |        2 |
+-----+-------------+--------+-------+----------+
1 row in set (0.00 sec)

mysql> insert into bookinfo values (102,"python program","abc",555,5);
Query OK, 1 row affected (0.01 sec)

mysql> insert into bookinfo values (103,"java program","pqr",225,1);
Query OK, 1 row affected (0.01 sec)

mysql> select * from bookinfo;
+-----+----------------+--------+-------+----------+
| id  | title          | author | price | quantity |
+-----+----------------+--------+-------+----------+
| 101 | cpp program    | xyz    |   345 |        2 |
| 102 | python program | abc    |   555 |        5 |
| 103 | java program   | pqr    |   225 |        1 |
+-----+----------------+--------+-------+----------+
3 rows in set (0.00 sec)
```

OUTPUT:



Book Information

BookId	BookName	Author	Prize	Quantity
101	cpp program	xyz	345	2
102	python program	abc	555	5
103	java program	pqr	225	1