1. Demonstrate a project to set up JDBC environment.

Code :-

```java
package Abc;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class JDBCEnvironment
 */
@WebServlet("/JDBCEnvironment")
public class JDBCEnvironment extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        Connection connection = null;
        PrintWriter out = response.getWriter();

        try {
            // Step 1: Load the JDBC driver (You should use the newer driver class)
            Class.forName("com.mysql.cj.jdbc.Driver");

            // Step 2: Get the connection to the database
            String url = "jdbc:mysql://localhost:3306/JdbcEnvirnoment"; // Note the corrected database name
            String username = "root";
            String password = "root";

            connection = DriverManager.getConnection(url, username, password);

            out.println("SUCCESS!!");
        } catch (ClassNotFoundException e) {
            out.println("Error: JDBC Driver not found");
        } catch (SQLException e) {
            out.println("Error: Unable to connect to the database");
            e.printStackTrace();
        } finally {
            try {
                if (connection != null) {
                    connection.close();
                }
            } catch (SQLException e) {
```

```
                e.printStackTrace();
            }
        }
    }
}
```

## Html

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<a href="init" >Initialize JDBC here</a>
</body>
</html>
```
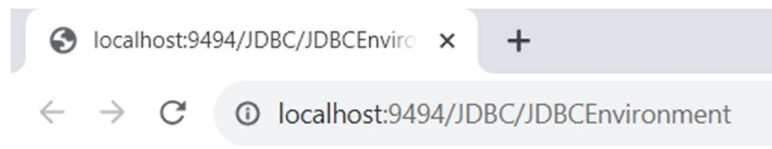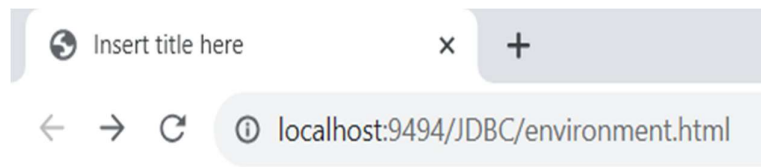
```
11
12      |
13
14  •    show databases;
```

**Result Grid** | Filter Rows: | Export:

| Database |
|---|
| envirnoment |
| information_schema |
| jdbcenvirnoment |
| mphasis |
| mphasis_book |

Result 6 ✕

localhost:9494/JDBC/JDBCEnviro ✕ +

← → C ⓘ localhost:9494/JDBC/JDBCEnvironment

SUCCESS!!

Insert title here ✕ +

← → C ⓘ localhost:9494/JDBC/environment.html

Initialize JDBC here