

Subject:- MWA

Assignment : 4

Q) write a JSP page that connects to a MySQL database using JDBC.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title> database connection example </title>
```

```
</head>
```

```
<body>
```

```
<h1> database connection example </h1>
```

```
<pre>
```

```
Connection conn = null;
```

```
Statement stmt = null;
```

```
ResultSet rs = null;
```

```
try {
```

```
// Load the MySQL JDBC driver
```

```
Class.forName("com.mysql.cj.jdbc.Driver");
```

```
// Establish the connection.
```

```
String url =
```

```
"jdbc:mysql://localhost:3306/your-database-name";
```

```
String username = "your-username";
```

```
String password = "your-password";
```

```
conn = DriverManager.getConnection(url, username, password);
```

```
// Execute a query.
```

```
String sql = "SELECT * FROM your-table-name";
```

```
stmt = conn.createStatement();
```

```
rs = stmt.executeQuery(sql);
```

```
while (rs.next()) {
```

```
int id = rs.getInt("id");
```

```
String name = rs.getString("name");
```

```
out.println("<tr><td>" + id + "<td><td>" + name +
```



```

"</td></tr>");
    }
    out.println("</table>");
} catch (Exception e) {
    out.println("Error" + e.getMessage());
} finally {
    // close resources.
    try {
        if(rs != null) rs.close();
        if(stmt != null) stmt.close();
        if(conn != null) conn.close();
    } catch (SQLException e) {
        out.println("Error closing resources: " + e.getMessage());
    }
}
%>
</body>
</html>

```

Q. b) write a PHP-Script that alters the "users" table by adding a column for "age". Then execute a query to retrieve users above a certain age and display the result.

```

<?php
// database connection details (replace with your actual
details)
$servername = "localhost";
$username = "your_username";
$password = "your_password";
$dbname = "your_database";
// create connection
if($conn > connect_error){

```

```

{
// SQL to add "age" column & modify data type if needed)
$SQL = "ALTER TABLE users ADD COLUMN age INT";
if ( $result = $conn->query($SQL) ) {
    echo "Users above " . $minAge . " years old : \n";
    while ( $row = $result->fetch_assoc() ) {
        echo "ID: " . $row["id"] . " Name: " . $row["name"] . " Age: " . $row["age"] . "\n";
    }
} else {
    echo "No users found above " . $minAge . " years old. \n";
}
$conn->close();
}
}

```