Results of students in Xpanxion

First Name	Last Name	Marks	Delete?
Jill	Smith	50	✓
John	Doe	80	
Eve	Jackson	64	
John	Moe	70	
Johnny	Deep	75	

Delete   Reset

Source Code of the Web Page:

```
<!DOCTYPE html>
<html>
    <title>Marksheet for Xpanxion</title>
    <body>
        <h1>Results of students in Xpanxion</h1>
        <div id="Results">
            <table style="width:100%" border="1">
                <tbody>
                    <tr>
                        <th>First Name</th>
                        <th>Last Name</th>
                        <th>Marks</th>
                        <th>Delete?</th>
                    </tr>
                    <tr>
                        <td align="center">Jill</td>
```

```
                <td align="center"><input type="checkbox"></td>

            </tr>

        </tbody>

    </table>

</div>

<br/>

<br/>

<div id="Operations" align="center">

    <input type="button" value="Delete">

    <input type="button" value="Reset">

</div>

</body>

</html>
```

Please understand the above a sample HTML page, use the page and reference to the questions below. It is expected you to answer considering the above sample page

Questions Distribution

1) **WebElement Locator**
   a. Xpath by attribute
      i. Complex
         1. Find the reset button
   b. Xpath by Reference
      i. Simple
         1. Find the 4th Student Mark
   c. **Advanced Xpath - (Tough)**
      i. Using xpath Functions
         1. Find the list of students whose name starts with John
      ii. Using Sibling Elements
         1. Find the 'First Name' and 'Last Name' of the Student who has the highest mark

2) **Selenium WebDriver Questions**
   a. Level 0
      i. Basic queries
         1. Write a Code to Find all the inputs in the webpage

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2. Write a Code to maximize the window
3. Write a Code to retrieve page title and current URL

b. Level 1 (Medium)
   i. Waits
     1. Write a code to wait until a textbox is displayed
   ii. Using Actions API
     1. Write a code to perform double click
   iii. Handling Alerts
     1. Write a code to accept an alert
   iv. Handling Windows
     1. Write a code to get current window handle

c. Level 2 – (Tough)
   i. Getting screen co-ordinates of a particular web element
     1. Write a code to retrieve Height and Width of the Table
   ii. Using Javascript Executor
     1. Write a code to Scroll to Bottom of the page through Javascript

3) TestNG/Junit Program for the given Web Page
   a. Ensure a Precondition function written
     i. If precondition fails then test needs to be skipped
   b. Ensure you quit driver after each test

4) Write a Java program to get the title of a page from the page source of the HTML

Database Connections:

1. Using JDBC
   a. Retrieve all Users without associated Department
   b. Retrieve employees and their department names

Employee Table

ID	Name	Department
1	User1	Dep01
2	User2	Dep03
3	User3	Dep04
4	User4	

Department Table

ID	Name
Dep01	Dep 1
Dep02	Dep 2
Dep03	Dep 3
Dep04	Dep 4

```
String URL = "jdbc:oracle:thin:@xpanxion:1521:EMP";
String USER = "username";
String PASS = "password"
```

```
    <td align="center">Smith</td>
    <td align="center">50</td>
    <td align="center"><input type="checkbox" checked="true"></td>
</tr>
<tr>
    <td align="center">John</td>
    <td align="center">Doe</td>
    <td align="center">80</td>
    <td align="center"><input type="checkbox"></td>
</tr>
<tr>
    <td align="center">Eve</td>
    <td align="center">Jackson</td>
    <td align="center">
      <span id="high_score">94</span>
    </td>
    <td align="center"><input type="checkbox"></td>
</tr>
<tr>
    <td align="center">John</td>
    <td align="center">Moe</td>
    <td align="center">70</td>
    <td align="center"><input type="checkbox"></td>
</tr>
<tr>
    <td align="center">Johnny</td>
    <td align="center">Deep</td>
    <td align="center">75</td>
```