

Servlets

Deadline is the midnight of Next Wednesday 2nd of June, 2021.

- Write a Web application that take a square integer matrix (of any size) from the user, and calculates transpose and/or determinant.
- The user can check which operation to be performed and hits submit, you may need [this](#)
- The initial web page should look like this:

The screenshot shows a web browser window with the address bar displaying 'localhost:8080/matrix.html'. The page has a title 'Matrix Operations'. Below the title is a text area containing a 4x4 matrix of numbers: 47, 12, 21, 31; 47, 48, 35, 18; 26, 24, 46, 41; 26, 18, 18, 23. Below the text area are two checkboxes, 'Transpose' and 'Determinant', both of which are checked. At the bottom of the form is a 'Calculate' button.

- Create a servlet that calculates transpose/determinant and displays the original matrix along with the required calculation(s), output should be like:

The screenshot shows the same web browser window, but the page content has changed to show the results. The title is 'Result'. Under the title, there are three sections: 'Original Matrix' which displays the same 4x4 matrix as before; 'Determinant' which displays the value '365244'; and 'Transpose' which displays a 4x4 matrix: 47, 47, 26, 26; 12, 48, 24, 18; 21, 35, 46, 18; 31, 18, 41, 23.

- If both Determinant and Transpose are checked → calculate both
- If both Determinant and Transpose are NOT checked → display the original matrix only
- If ONLY Determinant is checked → calculate determinant only
- If ONLY Transpose is checked → calculate transpose only
- Record 1-2 minutes video to show 2 examples of matrices with different scenarios and explain important points of your code, showing that it runs.